



Librid 3 manual

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About this manual

This manual covers the software part of Librid 3 self-service unit. It also has some information about the hardware, but is not a complete guide to all hardware aspects of the unit.

This manual is valid for Librid version **3.0.8.2**.

About Librid 3

Librid 3 is the software running on Libmaster, Librid and Pillar self-service stations. The hardware comes in many shapes and sizes, with different configurations, but the software is always the same.

Librid 3 software can be configured to work with various hardware options such as RFID readers, Barcode readers and EM demagnetizers. It can also be connected to any library management system via SIP 2 protocol, to work seamlessly with existing library infrastructure.

Getting started

This chapter covers the most basic operations and settings of the software without going into too much detail. The rest of the manual has more specific information about all aspects of Librid 3, including a full settings reference.

Starting Librid 3

The self-service unit should be pre-configured to start Librid automatically when it is turned on. If Librid does not start automatically, or you have to turn it off and on again, you can start it by double-clicking on the program icon on the desktop:



Closing Librid 3

To close Librid 3, type the word **exit** on the keyboard and press <enter>. You can also use a specific exit-card in the card reader, if one has been configured. See section *Creating an Exit-card* for details.

Starting the computer

To turn on the computer in the self-service unit, turn on the main power switch. This will also by default start Librid 3, once the computer has finished the start-up sequence.

There may be specific cases when the device should be turned on by different means. In such case please follow the instructions given for that procedure.

Shutting down the computer

Before shutting down the computer, always close Librid first: type **exit** on the keyboard, or use a specific Exit-card to shut down.

After Librid has been closed, you can turn off the computer normally. Choose **Shut down** or **Turn off** from the Windows menu, and wait for the computer to shut down; the screen will be completely black. It is now safe to turn off the main power switch.

Statistics report

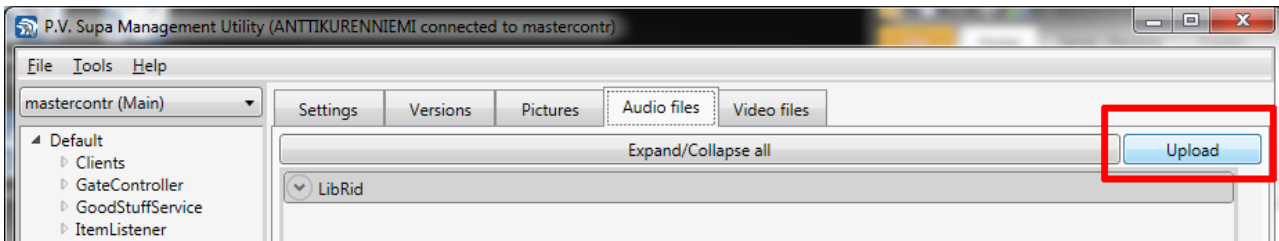
Librid 3 comes with a separate program, **Supa Reporter**, which is used to access statistics. If your environment is configured as centralized system, you will be able to access the statistics from any workstation in the library. For standalone installations, reports must be executed on each self-service unit separately.

See chapter *Statistics* later in this guide for introduction to Supa Reporter. There is also a separate manual available for more details on the reporter tool.

Controlling the sounds

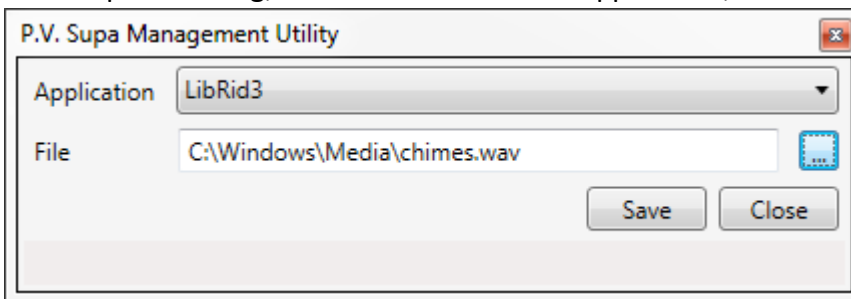
Librid 3 can be configured to play sounds on various events. Sounds have to be in WAV format files and they need to be uploaded to the database using **Management Utility**.

In Management Utility, go to "Audio files" tab and click on the "Upload" button:



Management utility, working with audio files

In the Upload dialog, select "Librid3" as the application, and browse the file you wish to use:

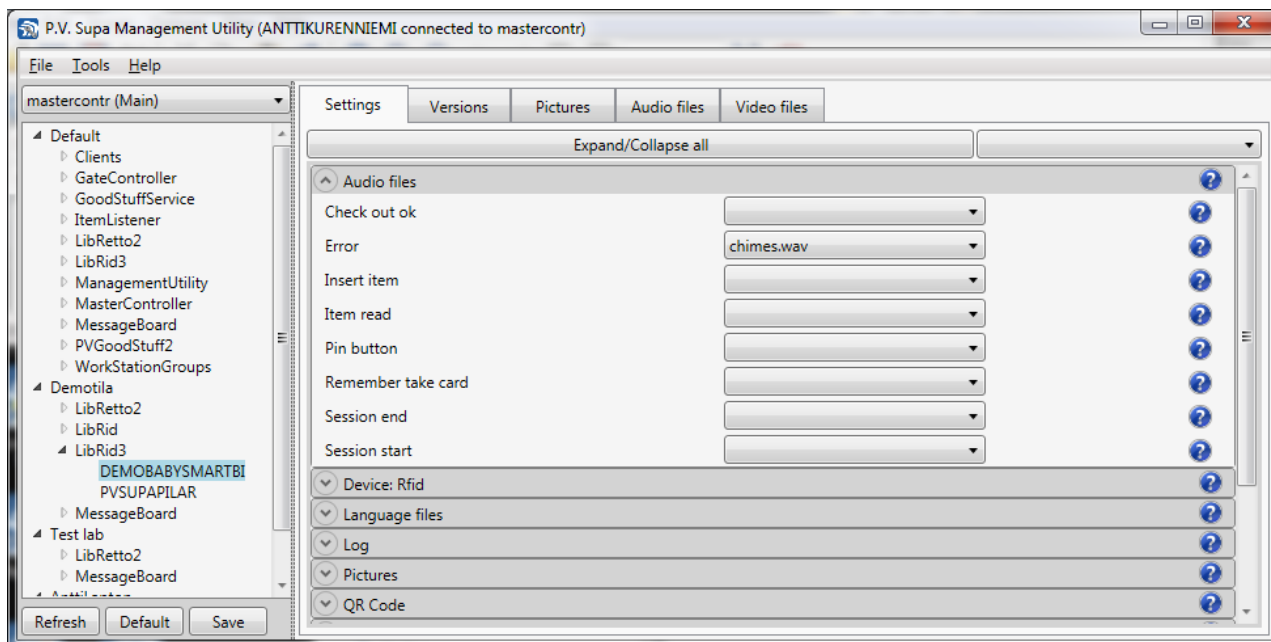


Uploading audio files

Then click on **Save** button. Note that you need to restart Management Utility or click on the **Refresh** button in Management Utility, before the uploaded files are available for selection.

To configure the files for each device:

1. Close Librid by typing **exit** on the keyboard or using a specific Exit-card.
2. Start Management Utility
3. Select section **Audio files** from under each device in the treeview, on the left
4. Select from the drop-down lists the sound(s) you wish to use for each action.
5. Finally, click on the **Save** button at the bottom left of the window to save changes.



Audio files in Management Utility

The different sounds are:

Check out OK: Sound plays when library system has accepted the check-out.

Error: Sound plays when there is an error situation in the self-check.

Insert item: Sound plays when the self-check is ready to process next item

Item read: Sound plays when the self-check has identified an item

Pin button: Sound plays when PIN-code has been given

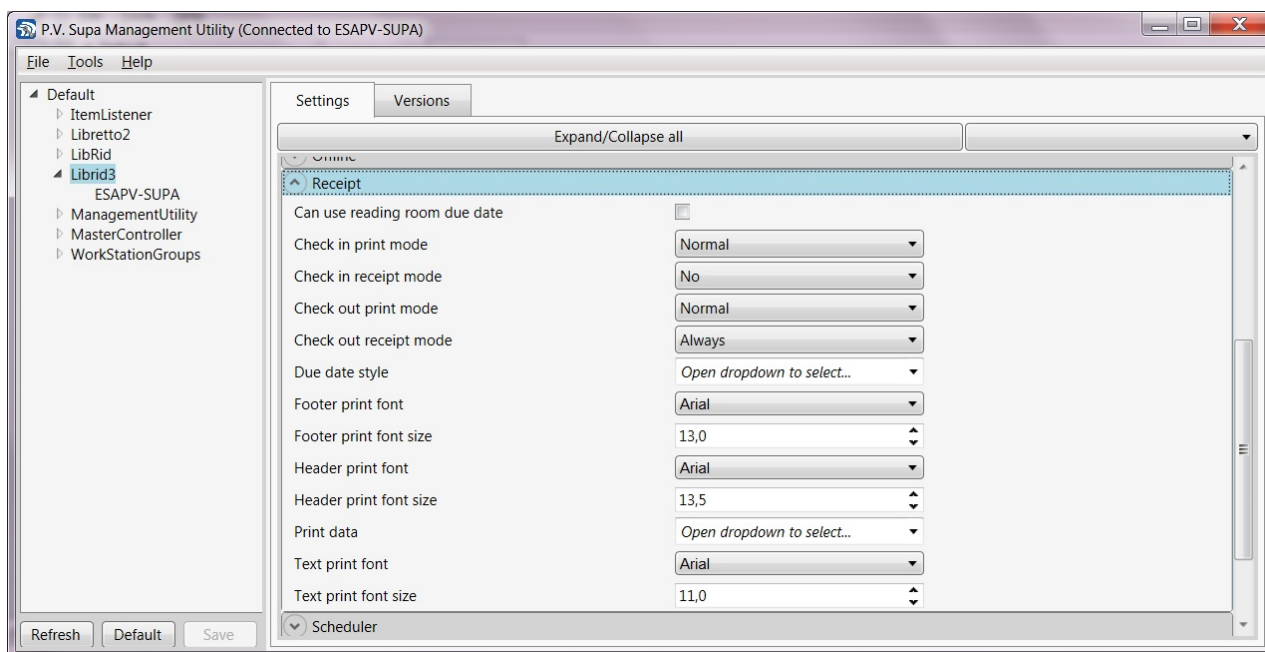
Remember take card: Sound plays when the Librid program reminds the patron to take his patron card from the card reader

Session end: Sound plays when the check-out/in session is closed

Session start: Sound plays when the check-out/in session is started

Changing receipt font sizes

Receipt font sizes are controlled via the **Management Utility**. To change the font sizes, first close Librid and then open Management Utility. In Management Utility, find section **Receipt** under the **Librid3** branch:



Management Utility - receipt settings

Footer print font size is the size of the footer font, at the end of the receipt.

Header print font size is the size of the header font, at the top of the receipt.

Text print font size is the size of the main text of the receipt.

Change these to what you want them to be, and then click on the **Save** button at the bottom left. The changes will take effect when Librid 3 is next started.

Information printed on receipts

You can choose what information you wish to print on the receipts. To do this, first close Librid 3 and open Management Utility. In Management Utility, find section **Receipt** under the **Librid3** branch.

Open the drop-down list **Print data** and mark all data you want to appear in the receipts. Then click on the **Save** button to save the changes.

Note, that not all library systems support all possible combinations and all information, so it may not be possible to print everything as desired.

For more detailed information about the possible values of Print data, please see the section *Print data* in the settings reference.

Changing receipt texts

Text labels on receipts can be modified to include for example the Library name and address. Editing is done by **Language Editor**, a separate software tool from P.V. Supa, included in each system. For information about how to do this, see section *Language editor* later in this document.

Changing the timers

Various aspects of how the device works can be controlled by timers. These typically control for how long a message is displayed on screen, or how long the patron has to respond to a question, and so on.

Note: do not change the values beyond recommended values, for it may make the device function incorrectly.

Timers are located in Management Utility under **Librid3** branch, section **Timers**. To see details about what each timer does, please see the settings reference in this document, section *Timers*.

Connection to library system, SIP server

Librid 3 uses the SIP2 protocol to communicate with the library system. Settings to control how the connection is formed can be found in Management Utility, under **Librid3** branch, then the machine name, in section **SIP**. Please see *Settings reference* for details of each of these settings.

Note: If the system is working normally, do not change these settings. Incorrect settings will prevent the device from working correctly.

Software overview

Librid 3 comes pre-installed on the self-service station. It is a normal Windows application, and should it ever need to be updated or uninstalled, normal Windows software installation procedure should be used: use Control Panel to uninstall, and an MSI installer package to install the software.

Configuring the software

Librid 3 is configured with a separate software tool, **Management Utility**. Management Utility is used to configure all P.V. Supa software. Typically it contains groups of settings that are shared for each Librid 3 system running on the same location, and other groups of settings that are separate for each individual system.

Depending on the setup, there may be workstation groups assigned, in which case groups of stations can be configured separately.

When any changes are made, Librid 3 software needs to be restarted for the changes to take effect.

A settings reference can be found later in this manual. For details on how to work with Management Utility, see a separate Management Utility manual.

Delayed startup

It is possible to start Librid in a delay mode. This means that Librid starts up and then waits for a given period of time, before attempting to form connections to library systems and other devices. It can be useful for example if Librid is running on a very slow computer and is set to automatically start at computer startup, where not all services may be up and running by the time Librid is attempting to start.

To control the delayed startup, use a command line parameter **-delay:xx**, where xx is the delay time in seconds. You can assign this parameter in the startup shortcut properties in Windows. Note that in Windows 7 computers you have to create a new shortcut, because the one created by the installer can not be modified.

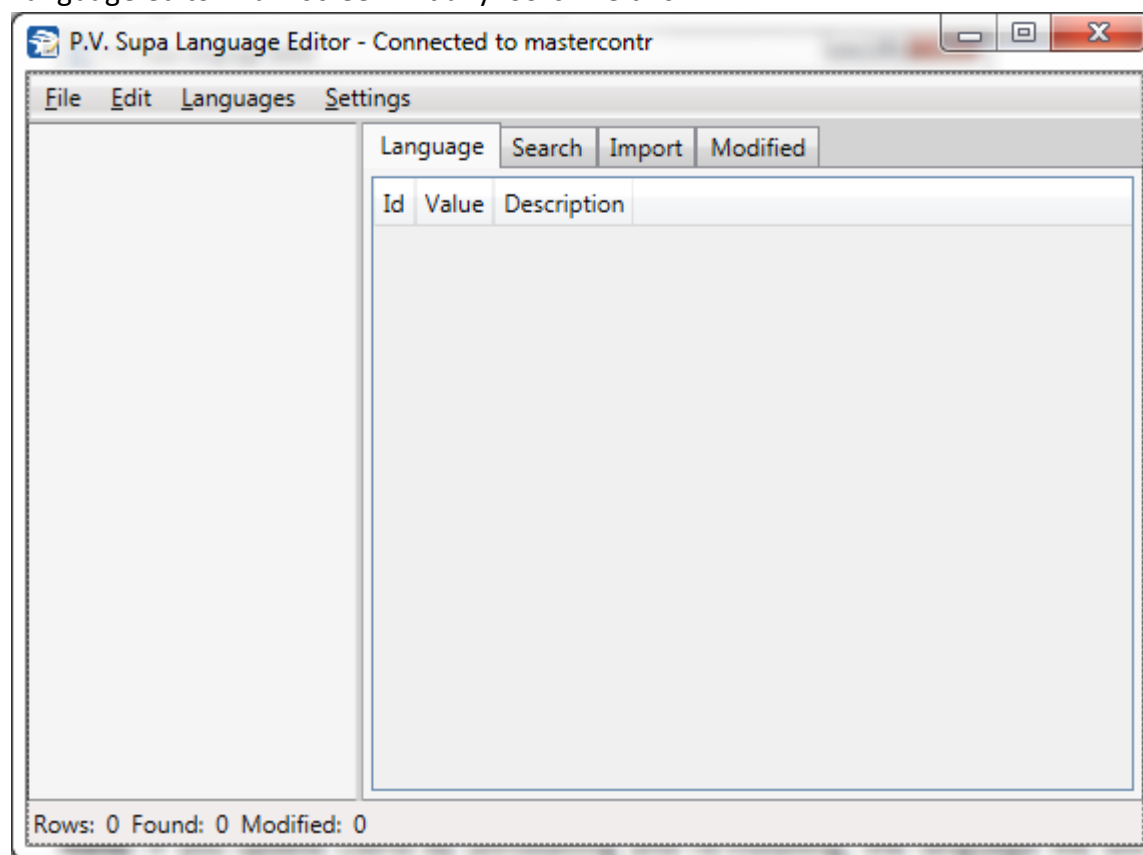
Language editor

Language editor is a tool for working with screen texts - texts visible on-screen in Supa software such as Librid or Libretto - and in some cases receipt texts. Receipt texts can be modified with Language editor in Librid 2 and Librid 3; in Libretto 2, receipt texts are modified using a separate tool, Receipt editor.

This chapter describes the use of Language editor briefly. There is a separate complete manual available for Language editor with more details.

Working with language files

Language editor main screen initially looks like this:

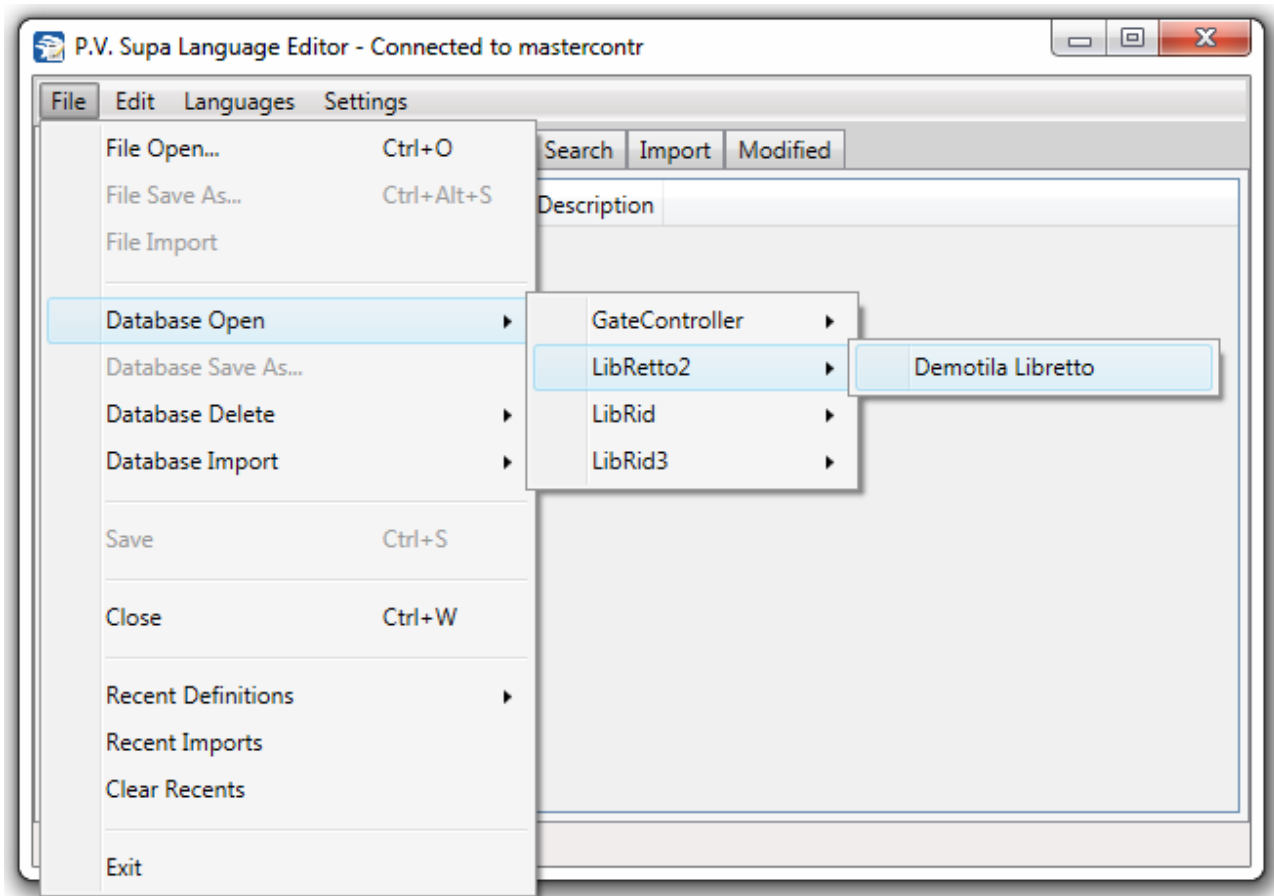


Main window of Language editor

By default, all language files should be saved to the database. For a new setup this may not be the case - default language files are delivered with installation packages as XML files, located under the program folder. If that is the case, please refer to the Language editor full user manual - this introduction assumes that the language file has already been stored in the database.

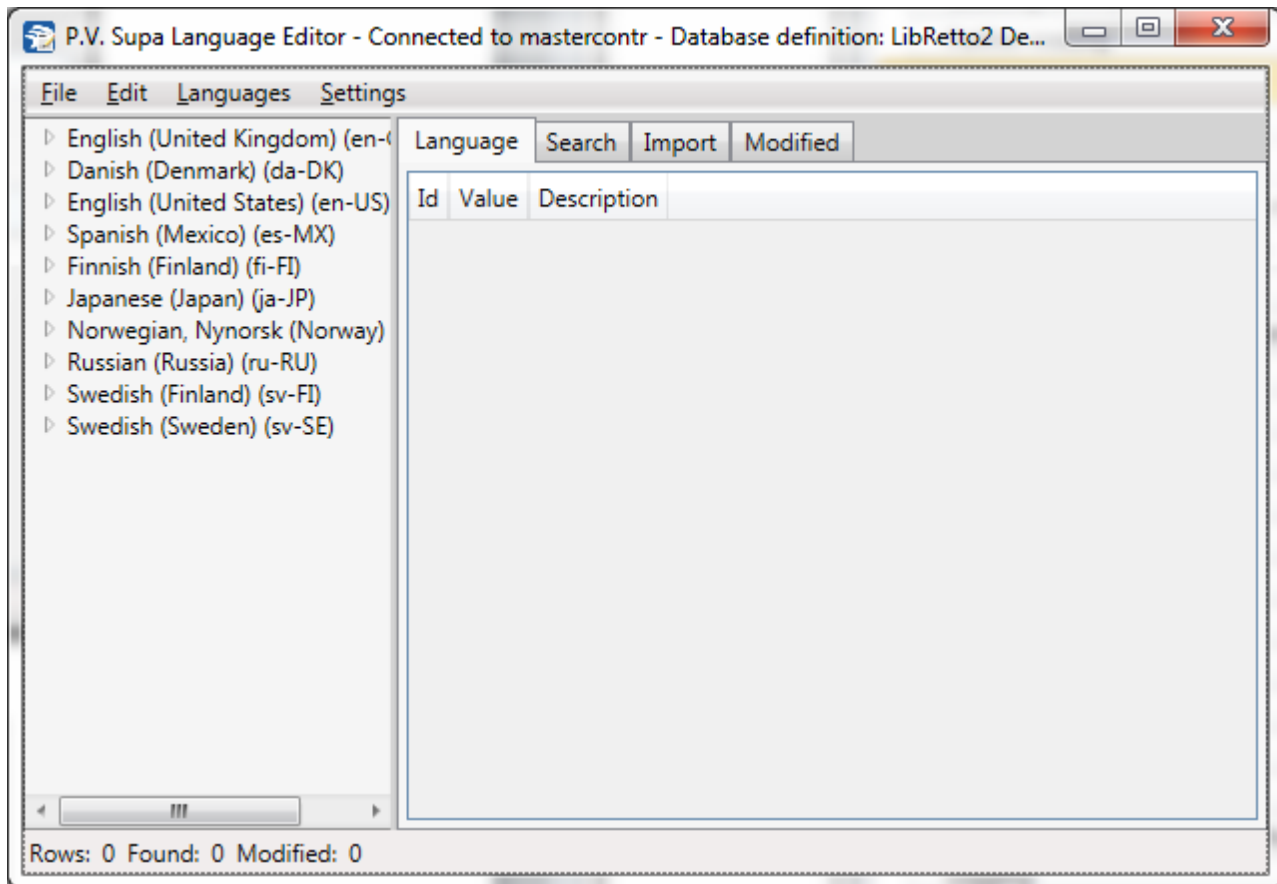
To open the language file, select **File** menu, then **Database Open** sub-menu entry. This will open a sub-menu listing all software that has language files stored in the database. Select the correct software, for example **Libretto2** or **Librid3**, depending on which software you are working with. Then, yet another sub-menu will appear with all available translation files for it. There may be more than one file for each software, allowing different devices in the library to have different texts - for example a self-check unit at a children's department might have different translations

than one used by adults.



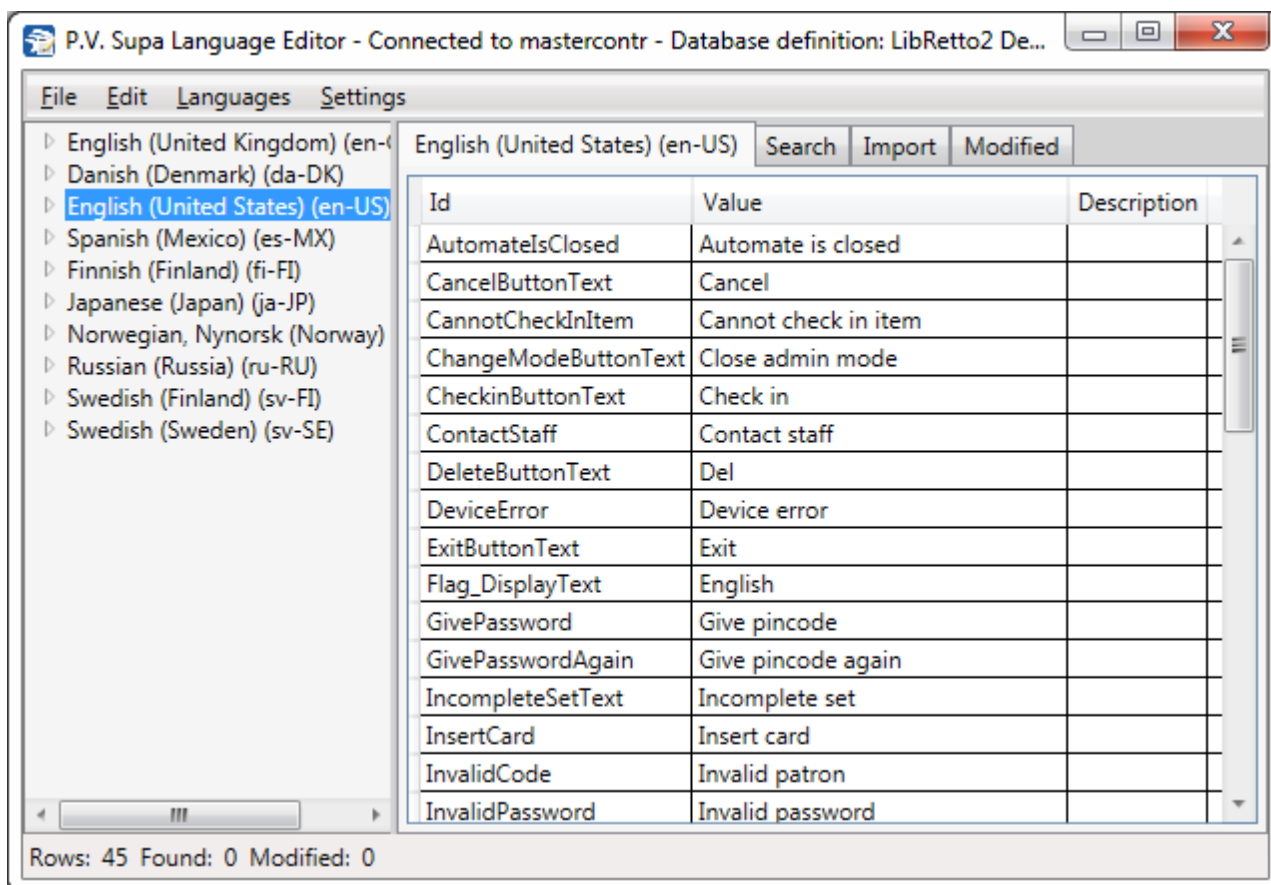
Opening a language file from database

After a language file is opened, a list of languages can be seen on the left hand side of the main window:



List of languages from a language file

Selecting a language from the list will show translations of that language:

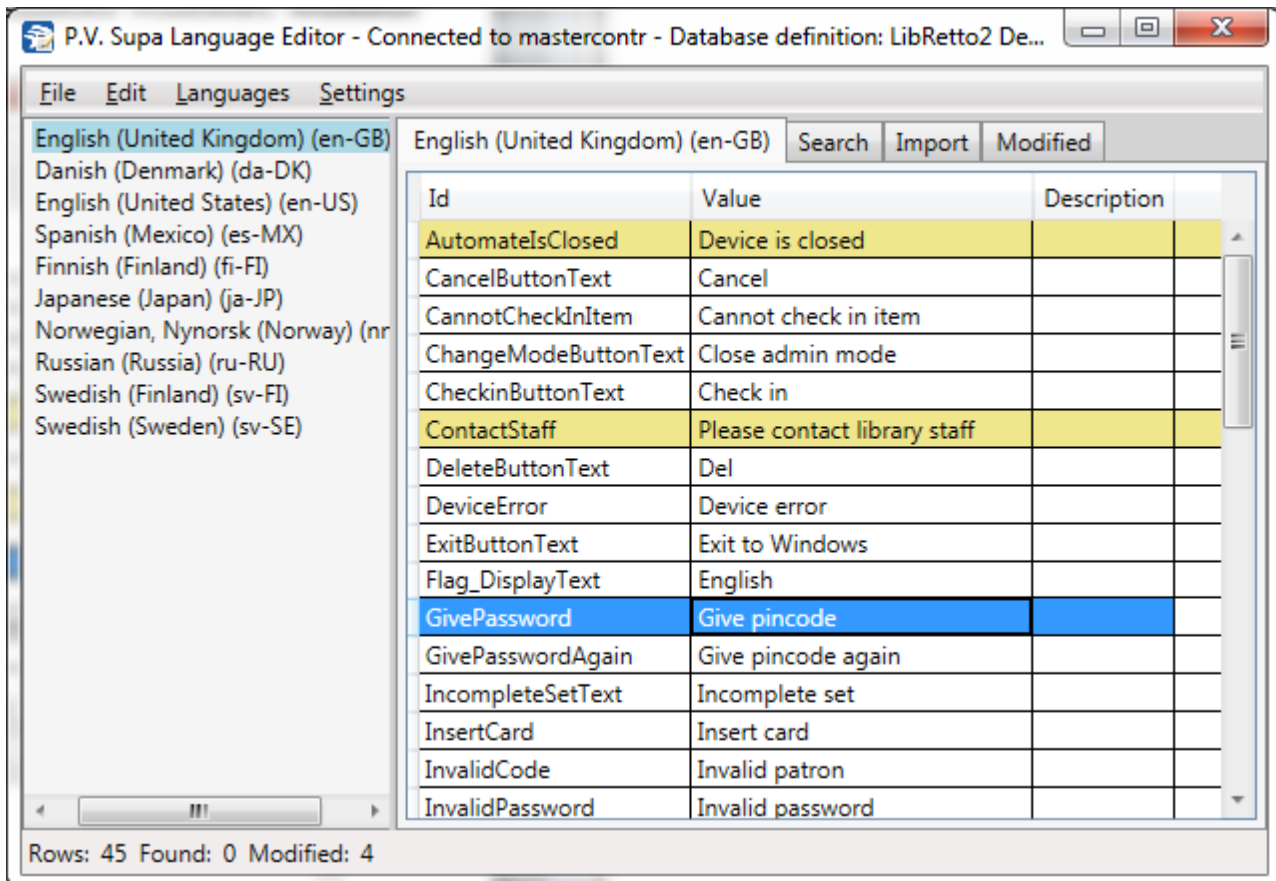


Main working view

This is the main working view of Language Editor. In this mode you can edit the strings that are used in the system.

The first column (Id) indicates the context of a string, i.e. where it belongs to. You cannot change these.

The next column (Value) is where you can modify the texts. Click on any string you wish to edit and write a new string or modify the existing one. When you are done, click on anywhere else in the application to end editing mode. Modified texts are displayed with yellow background color:



Some translations have been modified

When you are done, save changes by selecting **File** -> **Save** from the main menu.

Adding new languages

You can add a new language to the languages file in Language Editor by selecting **Languages** -> **Add language** from the main menu. This will display a list of all languages known to Libretto 2; you can choose any of these.

Make note of the abbreviation of the languages, in parenthesis (for example **en-US** for US English). You need these to enable the languages in Management Utility (see below).

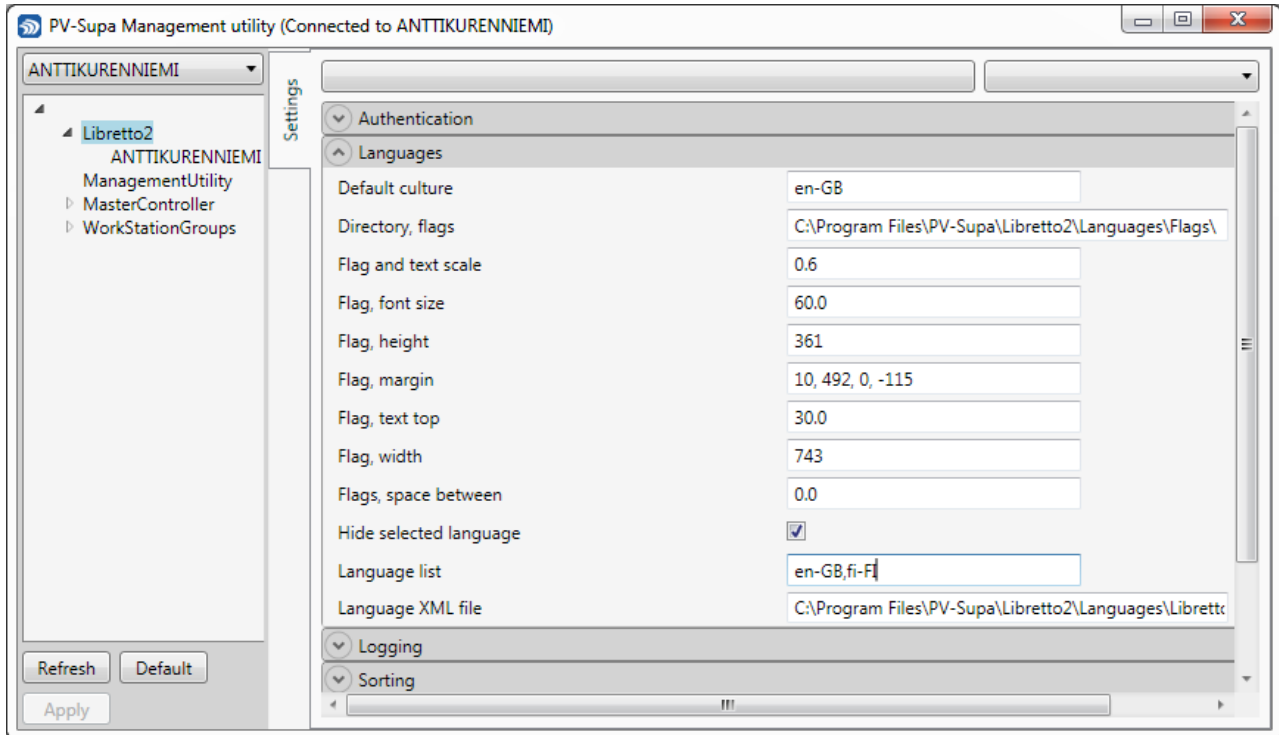
The newly added language will get values from default (English) texts; you need to provide correct translations for all texts.

After you have translated the new language, save changes by selecting **File** -> **Save** from the main menu.

Using texts in Supa software

After you have changed any texts and saved the language file, you must restart the Supa application (Librid, Libretto) for the changes to take effect.

If you have added new languages, you need to select the languages using the Management Utility application. Select the Supa software section from the treeview on the left, and then expand the Languages section. You will see a window like this (Libretto2 selected here - choose the correct software for your need):



Selecting the languages to use

In this window, the languages available to users are defined in the **Language list** field, near the bottom. Enter the language short codes here, separated by commas (.). For example in the screen shot above, British English (**en-GB**) and Finnish (**fi-FI**) are available. These will be shown as available choices to users of the device.

Receipt testing

It is possible to print receipts to files on local machine. This allows testing printer settings and receipt text changes remotely, without access to the physical printer. To do this, simply enter **“test”** as the receipt printer name:



Receipt	
Mode	Optional
Printer name	test

Test printer in settings

After restarting Librid, all receipts are printed to the “Program Data\PV-supra\Librid3\Receipts” folder in the local computer. The receipts are printed as XPS documents, and can be viewed using the built-in Windows XPS viewer.

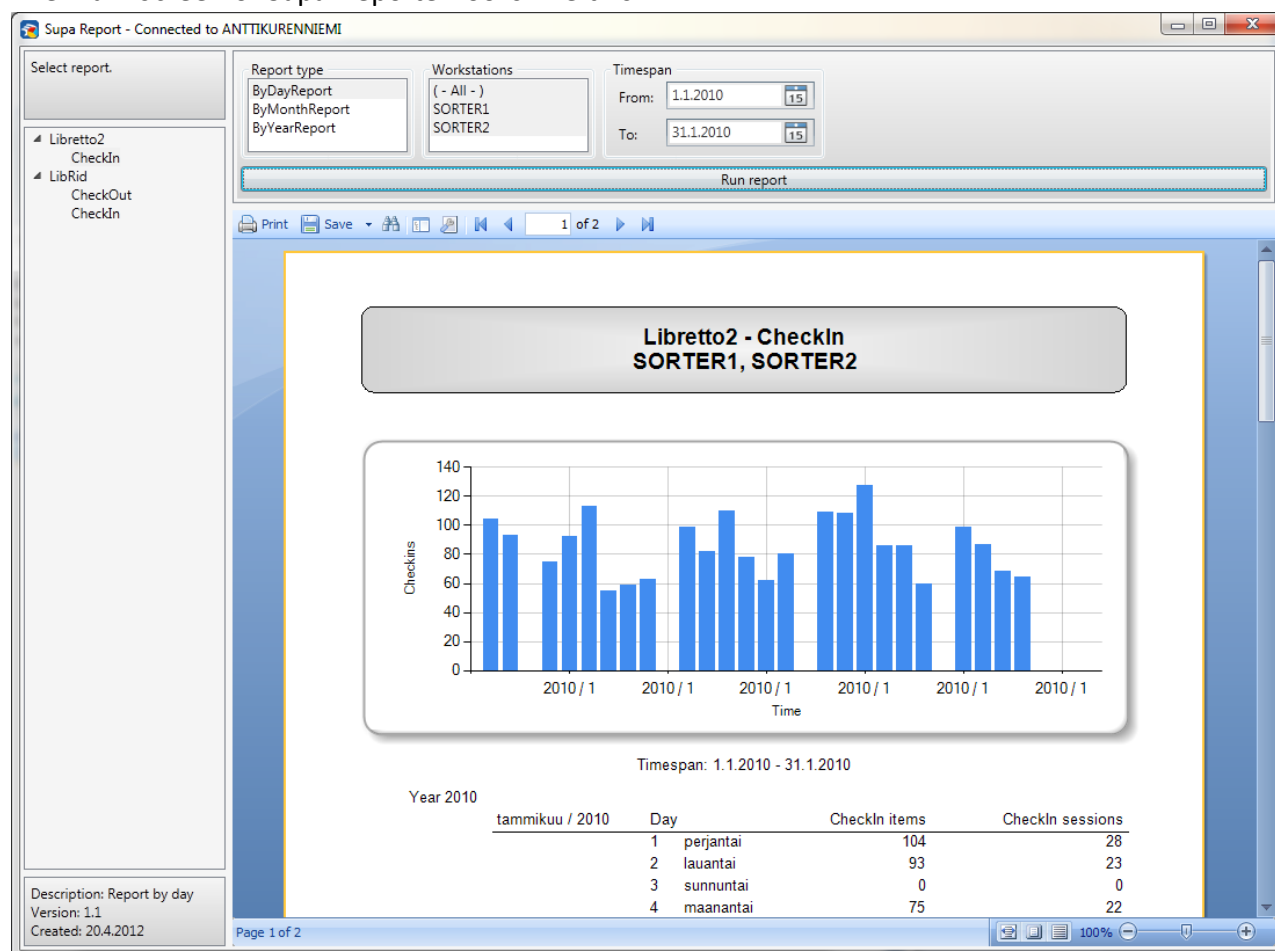
Statistics

Statistics from every Supa software can be generated with a separate tool, **Supa Reporter**. This tool allows you to create graphical reports, either from a single device or many devices if a centralized system is being used. It is also possible to generate the reports from a separate computer, for example a staff station, rather than directly from a device itself.

The reports can be exported into various different formats, such as MS Excel files or PDF documents.

Supa reporter

The main screen of Supa Reporter looks like this:



Supa reporter main screen

On the left is a report selection panel. The contents of this panel depend on installed Supa software (other Supa devices store report data in the same database, making it possible to create statistic reports from all of the using one tool). In this example, there are **Libretto2** -> **CheckIn** reports and **Librid** -> **CheckIn** and **CheckOut** reports available.

To begin, select the report from the left side panel (click on the line with the desired report on it). Then select the desired report type from the **Report type** list. The contents of this list also vary, depending on what device type and report is selected. For example for **Libretto 2**, there are separate reports for daily, monthly and yearly reports, as well as many others.

The next list box to the right contains a list of all available computers from which data is available. If you have a centralized system, all your devices will be listed here, otherwise just the device you are currently on will be shown. Note that for sorters, there are separate entries for each inlet as each inlet has its own computer.

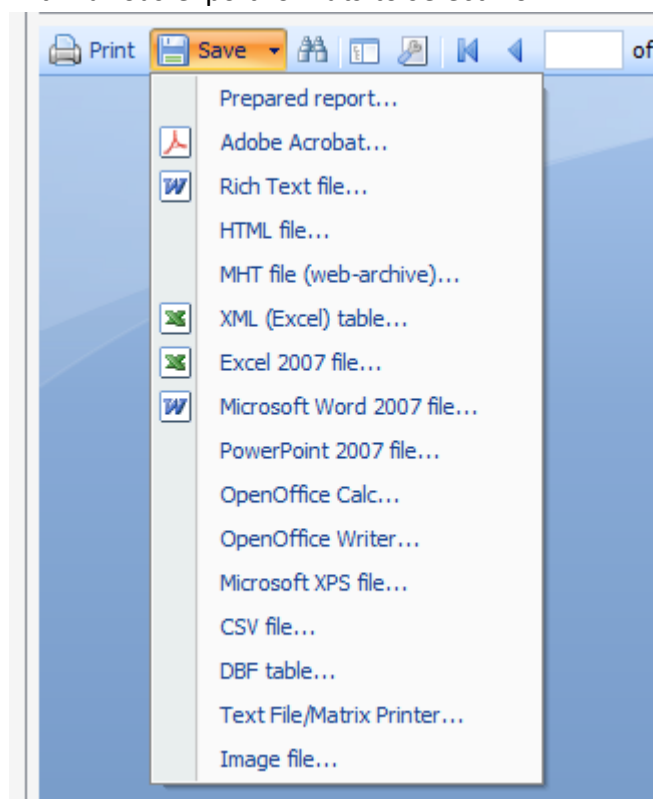
You can select multiple devices by keeping the **control** button on your keyboard pressed while clicking on the computer names. If you select more than one computer, the numbers of these will be added up and the report will thus show total numbers of all selected computers.

Finally you need to select the timespan. You can choose freely, for example everything from the beginning of the current year up until the present day, or just some months, or the previous year.

Once you have made your selections, click on the **Run report** button. This will start the report generating process. If you have a very long time period, it may take a while until the report appears.

The report itself will be shown below the selections. You can scroll the report display to see more of it.

To export the report, select the **Save** button just above the report display. This will open a menu with various export formats to select from:



Various formats in which a report can be saved

More information

There is a separate manual available for **Supa reporter** with more detailed information about using it.

Creating an Exit card

An Exit-card is a special library card (patron card) which when placed in the reader of the self-service unit, will close the program. This makes it more convenient to do maintenance tasks or shut down the device.

To configure a card to function as an Exit card in Librid 3, find the **Librid3** branch in Management Utility, then section **Admin**. There you will find a setting **Admin cards** - enter the ID that is stored on the card here, save the settings and restart Librid for the settings to take effect. Now, whenever this card is read by Librid, the application will close.

SIP messaging

Librid 3 uses SIP2 protocol to communicate with a library system. Communication is done over TCP socket connections, where IP address and port number can be configured freely.

Following is a list of messages required for operating Librid 3.

93 - 94 Login

Librid can use message 93 to log in to the library system, if such option is selected. The library system must respond with 94 message.

If the SIP login option is selected, this will be the first message Librid sends.

```
9300CNuserid|COloginpassword|CPlocationcode|
941
```

98 - 99 SC status

This message is used to check the status of the connection. Librid sends message 99 and expects a response by message 98.

If SIP login (93 - 94) is NOT selected, this will be the first message Librid sends.

```
9900522.00
98YYYYNY50000320101102      1312162.00AO10016|AMLibrary|BXXXXNYNYNNNY|
```

23 - 24 Patron status

Patron status is used to identify a patron using the Librid system. Librid sends message 23 with patron ID (from a patron card or entered via on-screen keyboard) and patron pin code. Expected response is message 24.

Alternatively, messages 63 - 64 can be used for Patron info.

```
2300020101102      130800AO10016|AA4321|AC|AD1234|
24      00620101102      131224AO10016|AA4321|AE198567|BLY|CQY|BHSEK|BV0.0|
```

63 - 64 Patron information

Patron information can optionally be used instead of Patron status (23 - 24). Patron information has more information available than patron status, if the library system supports it. Librid sends message 63 and expects a response in message 64.

```
6300020121120      102419 Y      AO|AA1234|AC|AD|BP1|BQ9000|AY5AZF029
64      Y      00020121120      102420000000000001000000000000AO|AA1234|AESupaUser|BLY|CQY|BHEUR|
```

17 - 18 Item information

This message pair is used to retrieve item information. Librid sends message 17 and expects a response in message 18.

09 - 10 Check in

Check In of a single item. Librid sends message 09 and expects a response in message 10.

```
09N20120908      11095320120908      000000AP|AOSupa|AB1234567|AC|CH|BIN
101YNN20120908      110958AOSupa|AB1234|AQLocation|AJBookTitle|AA1234|
```

11 - 12 Check out

Check Out of a single item. Librid sends message 11 and expects a response in message 12.

```
11YN20120908      11110020120922      111100AOSupa|AA1234|AB12345678|AD1234|BON|BIN|
121NNY20120908      111105AOSupa|AA1234|AB12345678|AJBookTitle|AH20121009|
```

29 - 30 Renew

This message is used to renew an item loan. Message should identify the item. Librid sends message 29, and expects a response in message 30. Response can either confirm or deny the renewal.

```
29NN20120908      11532020120922      000000AOSupa|AA1234|AD1234|AB1234567|AJ|AC|CH|BON|
301YNY20120908      115320AOSupa|AA1234|AB1234567|AJBookTitle|AH20121009|
```

65 - 66 Renew all

This message is used to renew all loans of a patron. Librid sends message 65 and expects a response in message 66. The response can either confirm or deny the operation.

```
6520120908      124905AOSupa|AA1234|AD1234|AC|BON|
661  1  020120908      124905AOKSupa|BMRenewedBookTitle|
```

Scripting

Librid 3 allows scripting to modify some information for installation specific purposes. Scripting is done in .NET C# language. All .NET functionality can be used in the script, such as logging to external files.

Script files are compiled at Librid startup, so any changes to the scripts require restarting Librid. Compile errors are written to Librid log – any errors prevent the scripts from being used, so be sure to check the logs after modifying the scripts.

All script files are found from the <program data> directory, for example

C:\Program Data\PV-Supa\Librid3\

Original script files are stored in Librid 3 program files directory. They should not be modified; they are there as originals, in case the modified ones are somehow lost or become unusable.

Patron script

Librid 3 supports modifying patron code in a script, before sending it to the library system. This allows for example removing pre- and suffix characters from patron codes, and excluding unwanted codes.

Patron code script is in a file named **CardScript.cs**.

To enable Patron script, turn on setting **Use script for patron code** in Management Utility.

Item script

Librid 3 supports modifying item ID's before they are sent to the library system via SIP messages. The script file is named **ItemScript.cs**.

The script does not require any settings to be turned on, it will always be used if it exists.

Screen message script

Screen message script allows modifying and translating screen messages in Librid, before displaying them on screen. This can be used for example to translate screen messages to user language in a case where the library system only sends screen messages in one language.

Screen message script is in a file named **AfTextTranslatorScript.cs**.

This script does not require any settings to be turned on, it will always be used if it exists.

Settings reference

Following is a complete list of Librid 3 related settings in Management Utility. Note, that depending on the Librid version used, some settings may not exist or may have slightly different options available.

Global settings

These settings affect all Librid 3 stations within the workstation group.

Admin

Librid 3 administrator settings.

Admin page cards

Card identifier (barcode or RFID) that will activate Admin page mode in Librid.

Disable default exit code

Selecting this option disables the “exit” default exit code. It will only be accepted if another exit code has been given in *Admin cards* setting.

Exit cards

Barcodes / identifiers of exit cards. These can be used to exit Librid 3 software, instead of typing “exit” on the screen. To enter multiple identifiers, separate them with a comma (,) character, for example:

12345,23456,34567

Note: this setting was formerly named **Admin cards**.

Shutdown cards

Identifiers of cards to use to shut down the software and computer. To enter multiple identifiers, separate them with a comma (,) character, for example:

12345,23456,34567

Authentication

Patron authentication related settings.

Auto ok on max digits

If enabled, the pin code screen (or physical pin pad) will automatically press enter when a maximum length of pin code is entered. If disabled, the user must press enter or OK to accept the pin code.

Maximum length of pin code is set in *Authentication -> Max pin code length* setting.

Barcode end key

End key (character) from barcode reader, to indicate Librid that the barcode has been read completely. This is configured in the barcode reader's configuration.

Barcode filter

Allows filtering characters from barcodes. Enter a regular expression in this field, for what characters or character sequences are to be filtered out.

Barcode removed text

This is the string that the barcode sends when a patron card is removed from the reader. Default value is "FREECODE" - do not change without reason. If this is set to an incorrect value, the device will not function properly.

Max fail count before exit

Maximum number of times a patron can attempt to enter his/her pin code, before the system requires that the patron card is removed and either the patron tries again, or is blocked if the Block user on fail setting is enabled.

Max patron code length

Maximum number of characters in a patron ID.

Max pin code length

Maximum number of characters in a patron Pin code.

Min patron code length

Minimum number of characters in a patron ID.

Min pin code length

Minimum number of characters in a PIN code.

Patron card reader type

Select which reader type you have, for patron cards. Available options are:

Keyboard: Patron card ID is expected to come through keyboard input buffer. This is the case with most USB connected readers.

Comport: This option is for units with patron card reader connected to a serial port (COM), such as a Quantum reader. If this option is selected, the Patron comport reader parameters setting

must also be correctly filled.

Rfid: Use this option if you use the RFID reader in the unit to read RFID tagged patron cards.

Rfid and keyboard: Select this option if you have a mix of barcode reader connected to a USB port (keyboard input), and also want to use the RFID reader to read RFID tagged patron cards.

Rfid and comport: Select this option if you have a mix of barcode reader connected to a serial port (COM), and also want to use the RFID reader to read RFID tagged patron cards.

Patron comport reader parameters

Set of parameters to use to establish communications with the patron card barcode reader, when it is connected to serial port (COM). These settings should usually not be changed. At most, change the COM port to point to correct serial port where the barcode reader is connected.

Patron dialog type

Patron card dialog type, on the touch-screen. Available values are:

Numeric: Allows only numbers.

Alphanumeric: Allows a mix of letters and numbers.

Card: No buttons are displayed on-screen, only instruction and picture to insert patron card into reader slot.

Upper alphanumeric: Letters and numbers, where letters are all uppercase.

Pincode authentication type

None: Pin code is not checked and not even prompted from the patron.

Mandatory: Pin code is required and prompted from the patron.

Optional: Some library systems may allow login without pin code. This option makes Librid first attempt to login with just the patron ID. If the library system responds with an OK, then the patron can carry on checking out books. If the library system denies login, Librid will then proceed to prompt for a pin code.

Pin code type

On-screen pin code dialog type. Available values are:

Numeric: Allows only numbers.

Alphanumeric: Allows a mix of letters and numbers.

Upper alphanumeric: Letters and numbers, where letters are all uppercase.

Show buttons in pincode dialog

If enabled, a PIN keypad will be shown on-screen for patrons to type in their pin code. If disabled, there is no on-screen pinpad. This is usually the case when a separate physical pinpad is installed on the device.

Note that both a physical and on-screen pinpad may exist and be used at the same time.

Show library card characters

If this setting is enabled, the PIN code that a patron enters is shown as actual numbers and characters. If disabled, dots will be shown instead to prevent other people from seeing the pin code.

Use parameter for patron card script

When a script is used for Patron Code (see *Use script for patron code*), it is possible to send an additional parameter indicating whether the patron card was read from an RFID or Barcode reader. This may be necessary information for handling the patron card, if the patron identifiers are stored differently in barcodes and rfid tags.

Use script for patron code

If enabled, a script is executed on patron identifier after it has been read, **before** sending it to library system. This allows removing or adding characters in patron identifiers, such as check digits for example.

CardScript will always be under the Librid program folder, and named **CardScript.cs** . It is C# .NET code, and can use all available features such as variables, methods and classes, freely. This script is compiled at Librid startup, and any errors are only caught at that point.

Check in

Settings related to checking in items.

Notify holds

If this setting is enabled, and a checked in item has a reservation to it, the user will be instructed to place it in specified container and to confirm by pressing a button on screen.

One item mode

If enabled, only a single item can be checked in at a time. If disabled, devices with RFID reader can be used to check in more than one item at a time, stacking them up on top of the reading area.

Check out

Settings related to checking out items.

Highlight mode

Defines how items can be highlighted in check out page. Possible values are:

No: No highlighting is done, all items are listed as-is.

Show AF: Displays the AF text of items on top of each item

Highlight all AF items: Will highlight ANY item in the list that has ANY text in the AF-field, in SIP check in response message (12).

Highlight latest AF item: Will highlight LAST item that has ANY text in AF-field, in SIP check in response.

Highlight only if AF item is last: Will highlight the item if it is last in the list, and has text in AF-field in SIP check in response message.

This can be used together with scripting, to identify specific texts to highlight. Using **AfTextTranslatorScript.cs** script file, the text can be parsed and cleared for items for which highlighting is not wanted, thus highlighting only specific items. For example the following script would find the text "special_item" from the AF field, and if it is found change it to something more user-friendly; otherwise clear out everything from the AF field, thus only highlighting items with "special_item" in the AF field:

```
namespace Translator
{
    public class AfTextTranslatorScript
    {
        public string Translate(string languageCode, string text)
        {
            if (text.Contains("special_item"))
                return "There is a newer edition of this book available - please check with staff!";
            else
                return "";
        }
    }
}
```

Item mode

One item: Only a single item is allowed on reader at a time. Typically the case for units with a barcode reader, but can also be enabled for RFID reader units.

Many item: Allows multiple books on RFID reader at one time ("stack reading").

Show patron fee amount

If enabled, patron fee amount will be shown on screen during check out operation.

Show patron name

If enabled, patron name will be shown on screen during check out operation.

Demagnetize

EM-alarm demagnetizing settings. What method is used is based on media type (CK field) information received from SIP response.

Demagnetize type 1 / 2 / 3

These settings control how the demagnetizing unit operates. These settings should not be changed unless the demagnetizer is replaced.

Method for audio tape / book / ...

These values can be used to select which of the above demagnetizing methods are used for which types of items. 0 (zero) means no demagnetizing, 1 (one) means use Type 1 demagnetizing, and so on.

Note, that for magnetic media such as audio tapes and video tapes, demagnetizing should not be used at all.

Use demagnetize

If selected, the demagnetizer will be used.

Device: IO

IO related settings.

Comport

Serial port to which the IO-controller is connected. Typically "COM3".

IO card type

Type of the IO-card connected to the unit. Do not change this setting if the device is working; incorrect selection will prevent the device from working correctly.

Port types

Configure ports that are used by the IO card. These settings **must** match those in the *Advantech.ini* file.

Sensor input channel

Port number to be used to control the sensor. For Windows XP (Advantech) this is usually 16, for Windows 7 (BioDaq) this is usually 20.

Sensor input high means open

This setting controls which signal means that the sensor is in open state. You can change this if LibRid goes into orange screen when inserting a patron card; that indicates that the sensor state setting is incorrect.

Sensor logic type

Select how the sensor is installed, in relation to the reader.

NoSensor when there is no sensor at all.

SensorBeforeBarcode when the sensor is installed before barcode reader. In this configuration, an item is expected to cover the sensor before the barcode reader is turned on.

SensorAfterBarcode when the sensor is installed after the barcode reader. In this configuration, the barcode reader is on before the sensor is covered.

Smart Bin / Drop box: Sensor Channel

IO controller channel for the sensor in a Smart Bin or Drop box.

Smart Bin: Green Light Channel

IO controller channel for the Green light, used in a Smart Bin.

Smart bin: Light mode

Controls how the lights operate in connected Smart Bin:

Light is on when an item is on smartbin reader: The light - red or green - is only shown when an item is on the Smartbin reader field. If an item is taken outside the reader field, all lights are off.

Normal: The light is turned on when an item is brought to the reader, either green or red, and the light stays on even when the item is removed from the field, until the correct item has been processed.

Red is on at default: Red light is always on by default, even when there is no item on the reader field. Green light will be turned on when the correct item has been identified.

Note: This setting replaces previous setting: **Smart bin: Red light is on at default.**

Smart Bin: Magnet Lock Channel

IO controller channel for the magnetic latch lock in a Smart Bin.

Smart Bin: Red Light Channel

IO controller channel for the Red light, used in a Smart Bin.

Smart Bin: Red light is on at default

Deprecated, see setting [Smart bin: Light mode](#) ³⁶

Smart bin: Wait until dropped

If this setting is selected, the device will wait for the item to be dropped in to a smart bin until proceeding. There will be no session timeout during this wait. If the setting is not selected, session timeout can interrupt the wait.

Use new advantech driver

This is an experimental setting to use an alternative method of initialising an Advantech IO card. Do not change this setting!

Device: Item barcode reader

Settings related to item barcode reader.

Barcode reader type

Type of item barcode reader. Available values are:

None: There is no barcode reader for items. This is the case with RFID only devices.

Comport: This option is for units with item barcode reader connected to a serial port (COM), such as a Quantum reader. If this option is selected, the Parameters setting must also be correctly filled.

Keyboard: Item ID is expected to come through keyboard input buffer. This is the case with most USB connected readers.

Parameters

Set of parameters to use to establish communications with the item barcode reader. These settings should usually not be changed. At most, change the COM port to point to correct serial port where the barcode reader is connected.

Reading side

Select whether the barcode reader is reading from below or from atop.

Stop reader when item read

If selected, the barcode reader will be stopped after an item ID has been read. This is normally not needed as barcode readers usually send an item ID only once. Some readers may work differently, and this setting can be used with those.

Email connection info

These settings control the functionality to send email messages from the device. Email can only be sent if the library system supports it and sends patron's email addresses in SIP messages, and if the email addresses are stored in the library system.

Email functionality also requires access to an SMTP server.

From

Name of the sender of emails, that will be used in messages. This should be something related to the library.

Port

Port number to use to connect to the email server. Default SMTP server port is 25, or 587 for SSL secured connections.

Server

Email server name or IP address.

SMTP password

Password used to send email through the server.

SMTP user

User name used to send email through the server.

Use authentication

Enable this setting if authentication needs to be used in the email server. If the server allows sending email without authenticating the sender, this can be disabled.

Use SSL

Enable this setting if the email server requires a secured SSL connection.

Functions

This section contains settings for the overall functionality of the device.

Account info functionality

A drop-down list to select what functions can be accessed from the Account Info page. Values are:

Can check out: There is a button to check out page, on the account info page.

Can renew: There is a button to renew page, on the account info page.

Can print receipt: If selected, account info page has printing option to allow patrons to print out the account information.

Button type: Account info

Select if and how to enable account info.

No: there is no method in the device to show patron account information.

Print: It is possible to print a receipt with account information.

Page: There will be a separate page in the user interface, where patrons can see their account information.

If No is selected, there will not be a button on the main screen to access account information. With either of the other choices, an Account Info button is shown.

Button type: Hold

Select if and how reservations are visible.

No: Reservations can not be seen from the device.

Print: It is possible to print a receipt with reservations listed, but they are not shown on screen.

Page: Reservations are shown as a separate screen in the system.

Note that this functionality is dependent on the library system sending information in a standard way that Librid can parse, in SIP communications.

Button type: Renew

Select if and how Renew functionality is available.

No: There is no renew functionality available in the device.

Page: There is a separate screen on the user interface, where the patron can see a list of items he has checked out. Patron can then select the items he wishes to renew, and the device will attempt to renew them using SIP messages.

Print: There will only be a single button to renew checked out items. When pressed, Librid will send a Renew All SIP message to the library system, and print a receipt if it succeeds.

Must remove patron card to end session

If this setting is enabled, the patron must remove his patron card from the reader slot in order to end the session.

Payment machine type

If there is a payment machine connected to the self service unit, this setting is used to control what type of payment machine it is. Currently the only supported type is **iTeam**.

Quit button type in checkout

No or Always. This setting controls whether or not there will be a specific Quit button in the check out page. If No is selected, then the check out session can only be ended by removing the patron card from the reader slot.

Quitting automatically

If this setting is enabled, the system will go back to the start screen after a check out or check in session, ending the patron session. If disabled, the system will go back to functions page where the patron can continue on to other operations.

Removing a patron card always ends session and reverts the system back to the start screen.

Session starting type

Select how a session is started. Available values are:

Default: Session is started by inserting a patron card to the card reader. There is no Start button on screen.

Start from button: There are buttons on screen to start a session. When session is started by pressing a button, patron card is requested for check out sessions.

Start from button and insert code: This is mainly for barcode/RFID hybrid Baby units. The system will not read patron identifier until a button has been pressed on screen.

Use check out button

If enabled, there will be a Check out button on screen, in the start screen.

Languages

User interface languages related settings.

Default culture

Default culture for the system. Use fully qualified culture codes, such as fi-FI or sv-FI for example. See available codes in section Language codes later in this document.

Language list

Add all available languages in this drop down list. Write a new language in the edit area and press Enter key to add a new language. These languages will be available in the start screen of Librid, and must also exist in the LanguageTexts.xml file.

To delete a language, select it and press the Delete key on your keyboard. Note that deleting a language will not delete translations from the LanguageTexts.xml document, so you can re-add a deleted language simply by adding it to this list again.

Log

Controls global logging options. For device specific selections on what to log, see Log option in local settings.

Server name for logging

Server name or IP address, where the logs are to be stored. This is usually the same server where the main database is stored in.

Magnetize

EM-alarm magnetizing settings. What method is used is based on media type (CK field) information received from SIP response.

Magnetize type 1 / 2 / 3

These settings control how the magnetizing unit operates. These settings should not be changed unless the magnetizer is replaced.

Method for audio tape / book / ...

These values can be used to select which of the above magnetizing methods are used for which types of items. 0 (zero) means no magnetizing, 1 (one) means use Type 1 magnetizing, and so on. Note, that for magnetic media such as audio tapes and video tapes, magnetizing should not be used at all.

Use magnetize

Enable this setting to use the magnetizing unit.

MessageBoard

These settings allow you to display check in and check out item names in MessageBoard. This functionality is mostly intended to be used for testing and demo purposes, not production use.

Show check in items

If selected, checked in item names and ID's will be displayed on MessageBoard.

Show check out items

If selected, checked out item names and ID's will be displayed on MessageBoard.

Offline

These settings control how the system should react when SIP (TCP socket) connection is lost.

Due date for check out

Number of days to add to current day, to get a due date for checked out items.

Offline mode

Is offline mode allowed, and if so, what functionality is available during it. Librid will attempt to reconnect at regular intervals, so that when the connection is again available the device would automatically resume regular operation.

Not used: If SIP connection is lost, the device will show an error message on screen and cannot be used before the connection is restored.

Check in only: Only check in operations are allowed during an offline situation. This is usually safe, as the worst that can happen is that items that don't belong to a particular library are checked in.

Check in and check out: Both check in and check out operations are available. It should be noted that for check out operations, there is no way to validate a patron without SIP connection. Basically anyone can insert a library card and any pin code, and the system will accept it. If offline functionality is enabled, Librid will store item ID's to a local text file when there is no SIP connection. After the SIP connection is restored, Librid will send the items to the library system. There is a separate text file that is written, with results in it; it is possible that items checked out during offline situation are rejected by the library server, so these results should be processed manually.

Both files are stored in the Librid program folder.

QR Code

These settings are related to logging in to a self-service station by using a QR code and a mobile phone.

Mobile login service address

IP address or name of the server hosting the mobile login service.

Mobile login service port number

Port number of the mobile login service.

Mobile login web site address

Address of the mobile login web site.

Receipt

Settings related to patron receipts. Librid has several receipts available: Check In receipt, Check Out receipt, Account Info receipt and Renew receipt.

Can use reading room due date

If enabled, Librid will allow for due dates that are only hours from current time. This is sometimes used for example in university libraries, where some books may only be loaned for a few hours at a time.

Normally due dates are only printed and displayed as date values, but this setting makes them appear with date and time parts.

Check in print mode

Select how the check in receipt is generated.

Normal: Librid generates the receipt itself, from data available from SIP messages.

ACS: Librid prints the receipt as it comes from the library system; all AG fields from the SIP check in response message.

Check in receipt mode

Should the receipt printed always, or does the patron have a choice. Available values:

No: There is never a check in receipt printed.

Ask: The patron will be asked if he wants a receipt, when a check in session ends.

Always: A receipt will automatically be printed when a check in session ends by patron's request.

Always with timeout: A receipt will automatically be printed when a check in session ends in time-out.

Check out print mode

Controls how the check out receipt is generated. Available values are:

Normal: Librid software constructs the receipt completely in the application.

ACS: The receipt is printed as it is received from the library system, all AG fields as rows.

Normal + ACS: All AG fields will be printed, and Librid will append a constructed receipt information as in the Normal option.

Check out receipt mode

Controls how the check out receipt is printed at the end of a session:

Ask: Patron will be presented a prompt (Yes / No) asking if he wants a receipt.

Always: Receipt will be automatically printed at the end of a check out session, if any items were checked out.

Always with timeout: A receipt will automatically be printed when a check out session ends in time-out.

Due date style

This setting controls the font style of the due date, when it is printed as generated from Librid. Note that this has no effect on receipts generated completely from library system (ACS).

Email receipt mode for checkout

Controls if and how an email receipt should be sent to patrons. Note that sending an email receipt requires that the patron's email address is available in SIP messages.

Possible values are:

No: There will be no email receipts sent.

Ask: The patron will have a choice on screen to either send an email receipt or not. This will appear as a button at the bottom of the screen, similar to receipt printing button.

Always: An email receipt will always be sent if patron email address is available.

Note that for the email receipt to function properly, settings in *Email connection info* section have to be properly set.

Footer print font

Select the font to use to print the footer of receipts.

Footer print font size

Select the font size to use to print the footer of receipts.

Header print font

Select the font to use to print the header of receipts.

Header print font size

Select the font size to use to print the header of receipts.

Print data

This dropdown allows selecting what data is to be printed on receipts. Note that this only applies to receipts when generated by Librid software.

Date: Prints the current date on the receipt.

Time: Prints the time on the receipt.

PatronId: Prints the patron identifier.

PatronName: Prints the name of the patron.

Phone: Patron's phone number, if available.

Email: Patron's email address, if available.

Address: Patron's address, if available.

ItemCount: Prints the total number of items on the receipt.

FineInCheckout: If checked, any fines (total fine amount) the patron may have will be printed on the check out receipt.

AlwaysFineInAccountInfo: If checked, the account information receipt will also contain any fines (total fine amount) the patron may have.

SummaryInAccountInfo: This selection will print a summary of items - number of items on hold, number of items on loan and so on - in the account information receipt.

RenewFailedItems: Will print a list of items that were attempted to renew, but renewal failed, in the renew check out receipt.

RenewBeforeItems: Will print a list of items that are on loan but were not attempted to renew, on the renew checkout receipt.

AlreadyCheckoutItems: Previously checked out, "books at home".

HoldItemsInCheckout: Check out receipt will contain a list of reserved items.

UnavailableHoldItemsInCheck: Check out receipt will contain a list of reserved items that are not yet available for pickup.

OverdueItemsInCheckout: Check out receipt will contain a list of overdue items.

RecallItemsInCheckout: Check out receipt will contain a list of recalled items.

Text print font

Plain text font selection.

Text print font size

Plain text font size.

Scheduler

The Scheduler controls when the device or devices are available for patrons. If scheduler is active, the device can only be used during given Open times.

Note that the scheduler does not shut down or start up the actual machines. It will only show a message on screen, indicating when the device is not available.

Active

Select this setting to activate the scheduler.

Open times

A text string with time slots when the device is available. The string is in format

```
<day of week>:<start time>-<end time>[|<start time>-<end time>], <day of week>...
```

Day of week needs to be English short day name (Mon, Tue, Wed, Thu, Fri, Sat, Sun)

Time needs to be in format xx.xx (separated by dot, not colon), 24-hour clock, for example 15.00

Start time and **End time** are separated by a hyphen (minus sign)

Several **Times** can be given for a single day, separated by a bar character (|)

Days are separated by a comma (,)

For example the following string would indicate that the device is available on weekdays (Mon - Fri) from 8 in the morning until 4 in the afternoon:

```
Mon:08.00-16.00, Tue:08.00-16.00, Wed:08.00-16.00, Thu:08.00-16.00, Fri:08.00-16.00
```

The following would indicate an opening on Tuesdays, for two hours in the morning and then two more hours in the evening:

```
Tue:08.00-10.00|18.00-20.00
```

It is usually easiest to construct the string in a text editor, such as Notepad for example, and then copy-paste the string into Management Utility as a whole.

SIP

These settings control the SIP communications between Librid software and the library system.

Ask fee items in message 63

Some SIP servers do not allow 7th field in summary for patron information request (SIP message 63); this setting enables or disables using that field. Leave selected if there is no real reason to turn it off.

Code page for receiving

Select Windows code page to use for decoding received SIP messages.

Code page for sending

Select Windows code page to use for encoding SIP messages that are sent to the library system.

Due date culture

What culture style is used in Due Dates. This determines how due dates are parsed when received from the library system.

Use a culture code as specified in Appendix A.

You can also use a Regular Expression in this field, to further format date values as needed. To use a Regular Expression, prefix the information with "format:", for example:

```
format:(?<day>\d+)(?:(?<month>\d+)(?:(?<year>\d+)
```

Ignore supported messages

This dropdown list allows ignoring when library system reports certain SIP messages as not supported. Sometimes the information is not entirely true, and messages can be used even when the library system reports them as not available.

Mark any / all messages in the list with a checkbox, if you want to ignore how the library system reports the availability of those messages.

Library type

Select what type of library system is used. Please make sure to select the correct one if available. This determines many things in the SIP communications, as different library systems use slightly different dialects of SIP messaging.

Max print line width

Sent to the SIP server; the library system will then adjust all print-line messages accordingly.

No block is true for Renew

If this setting is selected, the library system can not deny a renew even if there is for example a reservation for the book for another user. Typically this should be off, only for some specific cases it should be turned on.

Protocol version

SIP protocol version to use in communications with the library system.

Renew mode

There are two options to use Renewal function:

Default: This option uses normal Renew SIP messages (29-30 and 65-66 message pairs). Always use this if the library system supports these messages.

Use check out: This option creates separate Check in messages and Check out messages for all renewed items. It can be used if the library system does not support the standard renew messages. Note: this may not work as expected, as the check in and check out messages arrive in very quick succession, and not all systems allow that.

Starting sequence number

SIP messages starting sequence number; some library systems may require SIP messages to have a certain sequence numbering, and this setting can be used to control where the numbering starts from.

Use BL and CQ fields for patron authentication

This is an alternative method to use, for authenticating patron ID and PIN-code. Use this if the library system requires.

Use error handling

Select this setting to enable error handling in SIP communications. Do not use this if the library system does not implement error checking (CRC).

Use Fee Acknowledge in Checkout

Enabling this setting causes Librid to send a fee acknowledge flag in check out SIP message 11. Value Y in BO field ("BOY"). Use this if the library system requires so.

Use sip message 63

Alternative message pair 63-64 will be used to retrieve patron information, if this setting is enabled. Enable this if the library system returns patron information in 64 message, otherwise leave disabled.

Timers

These timer settings control how long various states in the device last. It is possible to change the behavior somewhat, but caution should be taken to not decrease or increase the timers too much, as that may cause impossible scenarios where the device will cease to function correctly.

ACS refresh time in minutes

The interval at which Librid checks the SIP connection. Default value is 5 minutes.

Barcode delay for hybrid(ms)

How many milliseconds to wait for identifiers to appear from RFID reader, if an item ID has been received from barcode reader first. Default value is 250 ms.

Card remove timeout in seconds

How many seconds will the "Please remember to take your card" reminder be shown, after a session has ended. If the value is set to 0 (zero), the message will be shown until the library card is removed from the reader. For other values the message is removed after the given time period, even if there is still a library card in the reader.

Delay time before show wait in checkout and checkin (ms)

Number of milliseconds to wait for SIP message, before a "please wait" message is shown.

Error delay time in seconds

In case an error is repeated, it won't be shown until this number of seconds has passed. The reason is to reduce "flickering" error messages for example when an item is right on the edge of the RFID reading area.

Error show time in seconds

General time for how long will an error message be displayed on screen.

Idle timeout in seconds

If the device is idle - that is, the patron does nothing during a session - for this period of time, the session will be automatically ended.

Incomplete set info in seconds (multi check out/in)

For how long will Librid attempt to read set information when RFID reader is used. Items will not show up on screen during this time. Warning: do not set this timer too long, otherwise the device will function very slowly.

Info show time in seconds

How long will the info screen be shown, at the start of a session.

Login refresh in seconds

If the SIP connection is using a login and the connection is lost, this timer controls at what interval will the login be attempted. Login message will be sent before ACS message.

Sip received timeout in seconds

How long will Librid wait for SIP server to respond to a message.

Value 0: information received from SIP server, in 98 message.

Greater than 0: use this value, instead of what the SIP server indicates.

Sorting arrow show time in seconds (single checkin)

How many seconds will the sorting arrow be displayed on top of the item list. This only applies to single item check in.

Timer for smart bin expected message

How long will the item be ignored on the primary reader (device) while waiting for it to appear in the secondary reader (smart bin). During this time, the message "Put item to smart bin" is not shown on screen.

User interface

Settings related to some user interface elements and behaviour.

AF message type in UI

How the error page content is formed.

AF: Show text received in SIP message as-is.

Internal: Show error message as defined in Librid.

AFInternal: Combination of the two; shows text from SIP message and the text as defined in

Librid.

Default currency

Currency code (text), used where ever currency is displayed, such as fines on receipts and on screen.

Fields to show in account info page

List of possible fields and other information that can be shown in Account Info page. Note, that not all library systems support every combination of information in this selection.

Hide flag in language selection

If selected, there will not be any flags displayed in language selection, in the UI, only names of languages. If not selected, flags will be displayed.

Mark special items in check in page

If selected, items that belong to special sorting will be highlighted on screen.

Max count to show block reason for patron

If the user is blocked by library system, there may be several reason codes returned by library system. This setting controls how many of those will be shown on screen.

Show account info when check out

If selected, an account info page will be shown on screen when a check out session is started. Note that the account info page can not be shown for check in sessions, because the patron can not be reliably identified.

Show already error

If enabled, Librid will show an error when already identified items are scanned again. For example when checking out, if you place a book on the reader twice, there will be an error saying "This item is already loaned". If not enabled, there will be no such error message.

Show detailed buttons

A dropdown list to select, what buttons will be shown in Account info page as buttons. These buttons can be used to access the main information, and there is also some information included in the buttons themselves - for example "Holds" button will show number of hold items available in the button, and pressing that button will then display a page with the actual hold items listed.

Show only special items in sorting page

If selected, only items belonging to special bin as per sorting rules will be shown on screen. The screen will not be split in two, instead the whole page width will be used for item names.

Local settings

These settings only affect the workstation under which they are in the Management Utility tree, i.e. a single Librid 3 machine.

Audio files

It is possible to assign sounds to different events of the device. These sounds should be in a normal .wav (wave) file format. System sounds provided with Windows can also be used.

Each file needs to be uploaded to the database using Management Utility, and can then be selected from the drop-down lists in this section. Same sound can be selected to multiple devices.

Check out ok

Sound to play when swiping an item to check out.

Error

Sound to play when an error occurs.

Hold item

Sound to play when an item is returned, and the item has a hold on it in the library system.

Insert item

Sound to play when Librid is ready to accept the next item.

Item read

Sound to play when an item barcode or RFID tag has been read.

Pin button

Sound to play when a pin button is pressed in the on-screen pinpad.

Remember take card

Sound to play when displaying a message on screen, reminding the patron to take his card from the reader.

Session end

Sound to play when a patron session ends.

Session start

Sound to play when a patron session starts.

Device: Rfid

RFID reader settings. Only applies to devices that have an RFID reader installed; if the device only has a barcode reader, these settings are not relevant.

Id for Scanner

Id number of the item RFID reader, given in the ini file. The ini file is stored in "Program Files \Common\PV-Supa" folder. Depending on what reader is installed, different ini files are used; for example for Nedap readers, "NedapS.ini" should be used.

In the ini file there is a section [Reader], with the ID like follows:

```
[READER]
; Port
ComPort = COM1
; Reader identification, used to identify reader when more than one reader is used
ReaderID = 1
```

This ID is used to differentiate readers when more than one is installed in one computer.

Id for Smart Bin

Id number of the RFID reader in the SmartBin, given in the ini file. See previous section Id for Scanner for more information about the ini file; there should be a second section for the second reader, with a different ID and COM port.

Ignore security error

If this setting is enabled, Librid will ignore error when attempting to set or remove RFID security bit (AFI). If disabled, there will be an error message shown to the patron.

Reader

Select type of RFID reader that is used in the device.

Use Rfid reader

Enable this setting if there is an RFID reader in the device. Disable if the device is only using a barcode reader.

Language files

Settings for language texts, stored in the database.

Language texts

This drop down lists all language texts uploaded to the database using Management Utility. Select the one to use for this unit. The same language text file can be selected for multiple devices; modifying texts in that file will then affect all devices to which it has been selected.

Log

Software logging related settings.

Hide sensitive info

If enabled, Librid will mask sensitive information such as patron card numbers and PIN codes in log, by replacing them with asterisks (*).

Save log

Select what types of information you wish to have logged.

Pictures

Images used in user interface. All images must first be uploaded to database using Management Utility and then selected using the drop down lists in each setting. Any image can be selected for multiple machines uploading it only once.

Note that the images are displayed on top of other content, so PNG images with transparent background should be used.

Account info button image

Button for Account Info on the main screen.

Account info button pressed image

Button for Account Info on the main screen, in pressed (down) state.

Book with arrow

A picture of book with an arrow showing the direction to slide it. Used when a device has barcode item reader and a sensor over which the book must be taken.

Card image in authentication page

Library card picture in authentication screen.

Card image in start page

Library card image in start screen.

Checkin button image

Button for Check in (return) on front page.

Checkin button pressed image

Button for Check in (return) on front page, pressed (down) state.

Checkout button image

Button for Check out (loan) on front page.

Checkout button pressed image

Button for Check out (loan) on front page, pressed (down) state.

Email button image

Email button for receipt printing selection.

Email button pressed image

Email button for receipt printing selection, pressed state.

Hold button image

Button for Hold functionality on front page.

Hold button pressed image

Button for Hold functionality on front page, pressed (down) state.

Image bin 0

Direction arrow for sorting bin 0.

Image bin 1

Direction arrow for sorting bin 1.

Image bin 2

Direction arrow for sorting bin 2.

Image bin 3

Direction arrow for sorting bin 3.

Library logo file

Library logo picture. Shown in the upper left corner of start screen.

Many book

Picture shown in "Place items on reader", when multiple items are allowed (RFID).

No button image

"No" choice in receipt printing, button image.

No button pressed image

"No" choice in receipt printing, button image in pressed (down) state.

One book

Picture shown in "Place item on reader", when single item mode is selected.

Receipt button image

Paper receipt choice button for receipt printing.

Receipt button pressed image

Paper receipt choice button for receipt printing, pressed (down) state.

Receipt image

Image to use for "Remember to take your receipt" display.

Renew button image

Button for renew functionality on the front page.

Renew button pressed image

Button for renew functionality on the front page, pressed (down) state.

Wait image

Wait-overlay image for situations when the software asks the user to wait for something.

QR Code

Mobile login related settings. Librid uses a QR code on the screen to enable using the system with a mobile device.

Library name

Devices are identified by library name and MAC address; these must also be configured on the mobile login service web application. Once this value is set and configured, do not change it – it will make the QR login system not work.

Start from account info

If selected, the software will open account info page immediately after mobile login.

Use QR Code

If enabled (and other settings are correctly set), there will be a QR code displayed on the screen of the self-service unit, allowing patrons to login with their mobile devices.

Receipt

Patron receipt related settings.

Mode

How is the patron receipt printed. Possible values are

No: There is no patron receipt printed.

Optional: Patrons can choose to have a receipt printed or not.

Mandatory: A receipt will always be printed automatically.

Pos printer name

If specific Pos printer drivers are used, this is the name of the Pos printer as seen in Windows printers. Pos printer drivers typically allow "paper near end" sensor to be used, unlike standard Windows printer drivers.

Printer name

Receipt printer name, from Windows installed printers on local machine.

Use paper near end sensor

If this setting is selected AND if the printer supports it, the "paper near end" sensor status is checked during operation. This allows sending messages to Messageboard before the printer paper is completely out.

Typically requires Pos printer and drivers to work.

SIP

Device specific SIP server related settings.

Login location code

If the SIP server requires a location code for login messages, enter the location code here.

Login user id

If login is used for SIP connection, this is the username to use in login messages.

Login user password

If login is used for SIP connection, this is the password to use in login messages.

Server ip address

SIP server IP address, or server name.

Server port

Port to use for connection. This must match what is set for SIP server.

Terminal password

This is the password for the SC unit. If this feature is not used by the ACS in the library then the field should be zero length if it is required in the command, and can be omitted entirely if the field is optional in the command.

Use ACS login

Select this checkbox if the SIP server requires ACS login messages.

Sorting

If the device is used for check in, these settings can be used to control the sorting of returned items.

Bin count

Number of sorting bins available. 0 (zero) if there are no bins connected. Typical values range from 0 to 2.

Bin number for special bin

If a smart bin is used, enter bin number of smart bin here.

Default sort bin

Default bin number, where items are sorted when no other sorting information has been given.

First bin index

Number of first bin. This value depends on SIP server, and is typically either 0 (zero) or 1 (one).

Offline bin

To which direction is the offline bin. Offline bin is used to sort items when SIP connection can not be made, and offline functionality is enabled.

Use special bin

Selection for does the device have a special bin or not. Available values are:

No: The device does not have a special bin.

Smart bin: The device has a smart bin with RFID reader connected to it.

Sorting rules

Sorting rules stored in database. Librid 3 uses the same sorting rules system as Libretto 2. Sorting rules are created with the same Sorting Editor tool.

Reserved items (holds) are defined by the sorting rules file, by creating a rule that has the "Hold"

flag set.

Rule

Select the desired sorting rule from the drop-down list. These rules are saved to database using **Sorting Editor**.

Type

This setting is used to select which type of device is in question.

Machine type

What type of self-service unit is this particular machine. Available values are:

Check out only: Only check out functionality is available.

Check in only: Only check in functionality is available.

Check out and check in: Both check in and check out functionalities are available.

User interface

User interface related settings.

Display font: Default to large fonts

If selected, the device will default to using larger fonts. Note, that high-contrast display mode is also enabled if setting [Display font: Use high contrast with large fonts](#)⁵⁷ is enabled.

Display font: Use font size button

If selected, there will be a button on the front page to increase font sizes throughout the user interface.

Display font: Use high contrast with large fonts

If selected, the color scheme of the user interface will also be switched to higher contrast mode, when large fonts button is pressed.

Mouse cursor visible

If selected, mouse cursor will be visible on screen during operation. This is typically only used when setting up the device, or during training, not in normal operating mode.

Language codes

The following list contains all language codes and date formats that can be used with Supa software.

Language code	Language name	Date format
af	Afrikaans	yyyy/MM/dd
af-ZA	Afrikaans (South Africa)	yyyy/MM/dd
am	Amharic	d/M/yyyy
am-ET	Amharic (Ethiopia)	d/M/yyyy
ar	Arabic	dd/MM/yy
ar-AE	Arabic (U.A.E.)	dd/MM/yyyy
ar-BH	Arabic (Bahrain)	dd/MM/yyyy
ar-DZ	Arabic (Algeria)	dd-MM-yyyy
ar-EG	Arabic (Egypt)	dd/MM/yyyy
ar-IQ	Arabic (Iraq)	dd/MM/yyyy
ar-JO	Arabic (Jordan)	dd/MM/yyyy
ar-KW	Arabic (Kuwait)	dd/MM/yyyy
ar-LB	Arabic (Lebanon)	dd/MM/yyyy
ar-LY	Arabic (Libya)	dd/MM/yyyy
ar-MA	Arabic (Morocco)	dd-MM-yyyy
arn	Mapudungun	dd-MM-yyyy
arn-CL	Mapudungun (Chile)	dd-MM-yyyy
ar-OM	Arabic (Oman)	dd/MM/yyyy
ar-QA	Arabic (Qatar)	dd/MM/yyyy
ar-SA	Arabic (Saudi Arabia)	dd/MM/yy
ar-SY	Arabic (Syria)	dd/MM/yyyy
ar-TN	Arabic (Tunisia)	dd-MM-yyyy
ar-YE	Arabic (Yemen)	dd/MM/yyyy
as	Assamese	dd-MM-yyyy
as-IN	Assamese (India)	dd-MM-yyyy
az	Azeri	dd.MM.yyyy
az-Cyrl	Azeri (Cyrillic)	dd.MM.yyyy
az-Cyrl-AZ	Azeri (Cyrillic, Azerbaijan)	dd.MM.yyyy
az-Latn	Azeri (Latin)	dd.MM.yyyy
az-Latn-AZ	Azeri (Latin, Azerbaijan)	dd.MM.yyyy
ba	Bashkir	dd.MM.yy
ba-RU	Bashkir (Russia)	dd.MM.yy

be	Belarusian	dd.MM.yyyy
be-BY	Belarusian (Belarus)	dd.MM.yyyy
bg	Bulgarian	d.M.yyyy 'r.'
bg-BG	Bulgarian (Bulgaria)	d.M.yyyy 'r.'
bn	Bengali	dd-MM-yy
bn-BD	Bengali (Bangladesh)	dd-MM-yy
bn-IN	Bengali (India)	dd-MM-yy
bo	Tibetan	yyyy/M/d
bo-CN	Tibetan (PRC)	yyyy/M/d
br	Breton	dd/MM/yyyy
br-FR	Breton (France)	dd/MM/yyyy
bs	Bosnian	d.M.yyyy
bs-Cyrl	Bosnian (Cyrillic)	d.M.yyyy
bs-Cyrl-BA	Bosnian (Cyrillic, Bosnia and Herzegovina)	d.M.yyyy
bs-Latn	Bosnian (Latin)	d.M.yyyy
bs-Latn-BA	Bosnian (Latin, Bosnia and Herzegovina)	d.M.yyyy
ca	Catalan	dd/MM/yyyy
ca-ES	Catalan (Catalan)	dd/MM/yyyy
co	Corsican	dd/MM/yyyy
co-FR	Corsican (France)	dd/MM/yyyy
cs	Czech	d.M.yyyy
cs-CZ	Czech (Czech Republic)	d.M.yyyy
cy	Welsh	dd/MM/yyyy
cy-GB	Welsh (United Kingdom)	dd/MM/yyyy
da	Danish	dd-MM-yyyy
da-DK	Danish (Denmark)	dd-MM-yyyy
de	German	dd.MM.yyyy
de-AT	German (Austria)	dd.MM.yyyy
de-CH	German (Switzerland)	dd.MM.yyyy
de-DE	German (Germany)	dd.MM.yyyy
de-LI	German (Liechtenstein)	dd.MM.yyyy
de-LU	German (Luxembourg)	dd.MM.yyyy
dsb	Lower Sorbian	d. M. yyyy
dsb-DE	Lower Sorbian (Germany)	d. M. yyyy
dv	Divehi	dd/MM/yy
dv-MV	Divehi (Maldives)	dd/MM/yy
el	Greek	d/M/yyyy

el-GR	Greek (Greece)	d/M/yyyy
en	English	M/d/yyyy
en-029	English (Caribbean)	MM/dd/yyyy
en-AU	English (Australia)	d/MM/yyyy
en-BZ	English (Belize)	dd/MM/yyyy
en-CA	English (Canada)	dd/MM/yyyy
en-GB	English (United Kingdom)	dd/MM/yyyy
en-IE	English (Ireland)	dd/MM/yyyy
en-IN	English (India)	dd-MM-yyyy
en-JM	English (Jamaica)	dd/MM/yyyy
en-MY	English (Malaysia)	d/M/yyyy
en-NZ	English (New Zealand)	d/MM/yyyy
en-PH	English (Republic of the Philippines)	M/d/yyyy
en-SG	English (Singapore)	d/M/yyyy
en-TT	English (Trinidad and Tobago)	dd/MM/yyyy
en-US	English (United States)	M/d/yyyy
en-ZA	English (South Africa)	yyyy/MM/dd
en-ZW	English (Zimbabwe)	M/d/yyyy
es	Spanish	dd/MM/yyyy
es-AR	Spanish (Argentina)	dd/MM/yyyy
es-BO	Spanish (Bolivia)	dd/MM/yyyy
es-CL	Spanish (Chile)	dd-MM-yyyy
es-CO	Spanish (Colombia)	dd/MM/yyyy
es-CR	Spanish (Costa Rica)	dd/MM/yyyy
es-DO	Spanish (Dominican Republic)	dd/MM/yyyy
es-EC	Spanish (Ecuador)	dd/MM/yyyy
es-ES	Spanish (Spain, International Sort)	dd/MM/yyyy
es-GT	Spanish (Guatemala)	dd/MM/yyyy
es-HN	Spanish (Honduras)	dd/MM/yyyy
es-MX	Spanish (Mexico)	dd/MM/yyyy
es-NI	Spanish (Nicaragua)	dd/MM/yyyy
es-PA	Spanish (Panama)	MM/dd/yyyy
es-PE	Spanish (Peru)	dd/MM/yyyy
es-PR	Spanish (Puerto Rico)	dd/MM/yyyy
es-PY	Spanish (Paraguay)	dd/MM/yyyy
es-SV	Spanish (El Salvador)	dd/MM/yyyy
es-US	Spanish (United States)	M/d/yyyy

es-UY	Spanish (Uruguay)	dd/MM/yyyy
es-VE	Spanish (Bolivarian Republic of Venezuela)	dd/MM/yyyy
et	Estonian	d.MM.yyyy
et-EE	Estonian (Estonia)	d.MM.yyyy
eu	Basque	yyyy/MM/dd
eu-ES	Basque (Basque)	yyyy/MM/dd
fa	Persian	MM/dd/yyyy
fa-IR	Persian	MM/dd/yyyy
fi	Finnish	d.M.yyyy
fi-FI	Finnish (Finland)	d.M.yyyy
fil	Filipino	M/d/yyyy
fil-PH	Filipino (Philippines)	M/d/yyyy
fo	Faroese	dd-MM-yyyy
fo-FO	Faroese (Faroe Islands)	dd-MM-yyyy
fr	French	dd/MM/yyyy
fr-BE	French (Belgium)	d/MM/yyyy
fr-CA	French (Canada)	yyyy-MM-dd
fr-CH	French (Switzerland)	dd.MM.yyyy
fr-FR	French (France)	dd/MM/yyyy
fr-LU	French (Luxembourg)	dd/MM/yyyy
fr-MC	French (Monaco)	dd/MM/yyyy
fy	Frisian	d-M-yyyy
fy-NL	Frisian (Netherlands)	d-M-yyyy
ga	Irish	dd/MM/yyyy
ga-IE	Irish (Ireland)	dd/MM/yyyy
gd	Scottish Gaelic	dd/MM/yyyy
gd-GB	Scottish Gaelic (United Kingdom)	dd/MM/yyyy
gl	Galician	dd/MM/yyyy
gl-ES	Galician (Galician)	dd/MM/yyyy
gsw	Alsatian	dd/MM/yyyy
gsw-FR	Alsatian (France)	dd/MM/yyyy
gu	Gujarati	dd-MM-yy
gu-IN	Gujarati (India)	dd-MM-yy
ha	Hausa	d/M/yyyy
ha-Latn	Hausa (Latin)	d/M/yyyy
ha-Latn-NG	Hausa (Latin, Nigeria)	d/M/yyyy
he	Hebrew	dd/MM/yyyy

he-IL	Hebrew (Israel)	dd/MM/yyyy
hi	Hindi	dd-MM-yyyy
hi-IN	Hindi (India)	dd-MM-yyyy
hr	Croatian	d.M.yyyy.
hr-BA	Croatian (Latin, Bosnia and Herzegovina)	d.M.yyyy.
hr-HR	Croatian (Croatia)	d.M.yyyy.
hsb	Upper Sorbian	d. M. yyyy
hsb-DE	Upper Sorbian (Germany)	d. M. yyyy
hu	Hungarian	yyyy.MM.dd.
hu-HU	Hungarian (Hungary)	yyyy.MM.dd.
hy	Armenian	dd.MM.yyyy
hy-AM	Armenian (Armenia)	dd.MM.yyyy
id	Indonesian	dd/MM/yyyy
id-ID	Indonesian (Indonesia)	dd/MM/yyyy
ig	Igbo	d/M/yyyy
ig-NG	Igbo (Nigeria)	d/M/yyyy
ii	Yi	yyyy/M/d
ii-CN	Yi (PRC)	yyyy/M/d
is	Icelandic	d.M.yyyy
is-IS	Icelandic (Iceland)	d.M.yyyy
it	Italian	dd/MM/yyyy
it-CH	Italian (Switzerland)	dd.MM.yyyy
it-IT	Italian (Italy)	dd/MM/yyyy
iu	Inuktitut	d/MM/yyyy
iu-Cans	Inuktitut (Syllabics)	d/M/yyyy
iu-Cans-CA	Inuktitut (Syllabics, Canada)	d/M/yyyy
iu-Latn	Inuktitut (Latin)	d/MM/yyyy
iu-Latn-CA	Inuktitut (Latin, Canada)	d/MM/yyyy
ja	Japanese	yyyy/MM/dd
ja-JP	Japanese (Japan)	yyyy/MM/dd
ka	Georgian	dd.MM.yyyy
ka-GE	Georgian (Georgia)	dd.MM.yyyy
kk	Kazakh	dd.MM.yyyy
kk-KZ	Kazakh (Kazakhstan)	dd.MM.yyyy
kl	Greenlandic	dd-MM-yyyy
kl-GL	Greenlandic (Greenland)	dd-MM-yyyy
km	Khmer	yyyy-MM-dd

km-KH	Khmer (Cambodia)	yyyy-MM-dd
kn	Kannada	dd-MM-yy
kn-IN	Kannada (India)	dd-MM-yy
ko	Korean	yyyy-MM-dd
kok	Konkani	dd-MM-yyyy
kok-IN	Konkani (India)	dd-MM-yyyy
ko-KR	Korean (Korea)	yyyy-MM-dd
ky	Kyrgyz	dd.MM.yy
ky-KG	Kyrgyz (Kyrgyzstan)	dd.MM.yy
lb	Luxembourgish	dd/MM/yyyy
lb-LU	Luxembourgish (Luxembourg)	dd/MM/yyyy
lo	Lao	dd/MM/yyyy
lo-LA	Lao (Lao P.D.R.)	dd/MM/yyyy
lt	Lithuanian	yyyy.MM.dd
lt-LT	Lithuanian (Lithuania)	yyyy.MM.dd
lv	Latvian	yyyy.MM.dd.
lv-LV	Latvian (Latvia)	yyyy.MM.dd.
mi	Maori	dd/MM/yyyy
mi-NZ	Maori (New Zealand)	dd/MM/yyyy
mk	Macedonian (FYROM)	dd.MM.yyyy
mk-MK	Macedonian (Former Yugoslav Republic of Macedonia)	dd.MM.yyyy
ml	Malayalam	dd-MM-yy
ml-IN	Malayalam (India)	dd-MM-yy
mn	Mongolian	yy.MM.dd
mn-Cyrl	Mongolian (Cyrillic)	yy.MM.dd
mn-MN	Mongolian (Cyrillic, Mongolia)	yy.MM.dd
mn-Mong	Mongolian (Traditional Mongolian)	yyyy/M/d
mn-Mong-CN	Mongolian (Traditional Mongolian, PRC)	yyyy/M/d
moh	Mohawk	M/d/yyyy
moh-CA	Mohawk (Mohawk)	M/d/yyyy
mr	Marathi	dd-MM-yyyy
mr-IN	Marathi (India)	dd-MM-yyyy
ms	Malay	dd/MM/yyyy
ms-BN	Malay (Brunei Darussalam)	dd/MM/yyyy
ms-MY	Malay (Malaysia)	dd/MM/yyyy
mt	Maltese	dd/MM/yyyy
mt-MT	Maltese (Malta)	dd/MM/yyyy

nb	Norwegian (Bokmål)	dd.MM.yyyy
nb-NO	Norwegian, Bokmål (Norway)	dd.MM.yyyy
ne	Nepali	M/d/yyyy
ne-NP	Nepali (Nepal)	M/d/yyyy
nl	Dutch	d-M-yyyy
nl-BE	Dutch (Belgium)	d/MM/yyyy
nl-NL	Dutch (Netherlands)	d-M-yyyy
nn	Norwegian (Nynorsk)	dd.MM.yyyy
nn-NO	Norwegian, Nynorsk (Norway)	dd.MM.yyyy
no	Norwegian	dd.MM.yyyy
nso	Sesotho sa Leboa	yyyy/MM/dd
nso-ZA	Sesotho sa Leboa (South Africa)	yyyy/MM/dd
oc	Occitan	dd/MM/yyyy
oc-FR	Occitan (France)	dd/MM/yyyy
or	Oriya	dd-MM-yy
or-IN	Oriya (India)	dd-MM-yy
pa	Punjabi	dd-MM-yy
pa-IN	Punjabi (India)	dd-MM-yy
pl	Polish	yyyy-MM-dd
pl-PL	Polish (Poland)	yyyy-MM-dd
prs	Dari	dd/MM/yy
prs-AF	Dari (Afghanistan)	dd/MM/yy
ps	Pashto	dd/MM/yy
ps-AF	Pashto (Afghanistan)	dd/MM/yy
pt	Portuguese	dd/MM/yyyy
pt-BR	Portuguese (Brazil)	dd/MM/yyyy
pt-PT	Portuguese (Portugal)	dd-MM-yyyy
qut	K'iche	dd/MM/yyyy
qut-GT	K'iche (Guatemala)	dd/MM/yyyy
quz	Quechua	dd/MM/yyyy
quz-BO	Quechua (Bolivia)	dd/MM/yyyy
quz-EC	Quechua (Ecuador)	dd/MM/yyyy
quz-PE	Quechua (Peru)	dd/MM/yyyy
rm	Romansh	dd/MM/yyyy
rm-CH	Romansh (Switzerland)	dd/MM/yyyy
ro	Romanian	dd.MM.yyyy
ro-RO	Romanian (Romania)	dd.MM.yyyy

ru	Russian	dd.MM.yyyy
ru-RU	Russian (Russia)	dd.MM.yyyy
rw	Kinyarwanda	M/d/yyyy
rw-RW	Kinyarwanda (Rwanda)	M/d/yyyy
sa	Sanskrit	dd-MM-yyyy
sah	Yakut	MM.dd.yyyy
sah-RU	Yakut (Russia)	MM.dd.yyyy
sa-IN	Sanskrit (India)	dd-MM-yyyy
se	Sami (Northern)	dd.MM.yyyy
se-FI	Sami, Northern (Finland)	d.M.yyyy
se-NO	Sami, Northern (Norway)	dd.MM.yyyy
se-SE	Sami, Northern (Sweden)	yyyy-MM-dd
si	Sinhala	yyyy-MM-dd
si-LK	Sinhala (Sri Lanka)	yyyy-MM-dd
sk	Slovak	d. M. yyyy
sk-SK	Slovak (Slovakia)	d. M. yyyy
sl	Slovenian	d.M.yyyy
sl-SI	Slovenian (Slovenia)	d.M.yyyy
sma	Sami (Southern)	yyyy-MM-dd
sma-NO	Sami, Southern (Norway)	dd.MM.yyyy
sma-SE	Sami, Southern (Sweden)	yyyy-MM-dd
smj	Sami (Lule)	yyyy-MM-dd
smj-NO	Sami, Lule (Norway)	dd.MM.yyyy
smj-SE	Sami, Lule (Sweden)	yyyy-MM-dd
smn	Sami (Inari)	d.M.yyyy
smn-FI	Sami, Inari (Finland)	d.M.yyyy
sms	Sami (Skolt)	d.M.yyyy
sms-FI	Sami, Skolt (Finland)	d.M.yyyy
sq	Albanian	yyyy-MM-dd
sq-AL	Albanian (Albania)	yyyy-MM-dd
sr	Serbian	d.M.yyyy
sr-Cyrl	Serbian (Cyrillic)	d.M.yyyy
sr-Cyrl-BA	Serbian (Cyrillic, Bosnia and Herzegovina)	d.M.yyyy
sr-Cyrl-CS	Serbian (Cyrillic, Serbia and Montenegro (Former))	d.M.yyyy
sr-Cyrl-ME	Serbian (Cyrillic, Montenegro)	d.M.yyyy
sr-Cyrl-RS	Serbian (Cyrillic, Serbia)	d.M.yyyy
sr-Latn	Serbian (Latin)	d.M.yyyy

sr-Latn-BA	Serbian (Latin, Bosnia and Herzegovina)	d.M.yyyy
sr-Latn-CS	Serbian (Latin, Serbia and Montenegro (Former))	d.M.yyyy
sr-Latn-ME	Serbian (Latin, Montenegro)	d.M.yyyy
sr-Latn-RS	Serbian (Latin, Serbia)	d.M.yyyy
sv	Swedish	yyyy-MM-dd
sw	Kiswahili	M/d/yyyy
sv-FI	Swedish (Finland)	d.M.yyyy
sw-KE	Kiswahili (Kenya)	M/d/yyyy
sv-SE	Swedish (Sweden)	yyyy-MM-dd
syr	Syriac	dd/MM/yyyy
syr-SY	Syriac (Syria)	dd/MM/yyyy
ta	Tamil	dd-MM-yyyy
ta-IN	Tamil (India)	dd-MM-yyyy
te	Telugu	dd-MM-yy
te-IN	Telugu (India)	dd-MM-yy
tg	Tajik	dd.MM.yy
tg-Cyrl	Tajik (Cyrillic)	dd.MM.yy
tg-Cyrl-TJ	Tajik (Cyrillic, Tajikistan)	dd.MM.yy
th	Thai	d/M/yyyy
th-TH	Thai (Thailand)	d/M/yyyy
tk	Turkmen	dd.MM.yy
tk-TM	Turkmen (Turkmenistan)	dd.MM.yy
tn	Setswana	yyyy/MM/dd
tn-ZA	Setswana (South Africa)	yyyy/MM/dd
tr	Turkish	dd.MM.yyyy
tr-TR	Turkish (Turkey)	dd.MM.yyyy
tt	Tatar	dd.MM.yyyy
tt-RU	Tatar (Russia)	dd.MM.yyyy
tzm	Tamazight	dd-MM-yyyy
tzm-Latn	Tamazight (Latin)	dd-MM-yyyy
tzm-Latn-DZ	Tamazight (Latin, Algeria)	dd-MM-yyyy
ug	Uyghur	yyyy-M-d
ug-CN	Uyghur (PRC)	yyyy-M-d
uk	Ukrainian	dd.MM.yyyy
uk-UA	Ukrainian (Ukraine)	dd.MM.yyyy
ur	Urdu	dd/MM/yyyy
ur-PK	Urdu (Islamic Republic of Pakistan)	dd/MM/yyyy

uz	Uzbek	dd/MM/yyyy
uz-Cyrl	Uzbek (Cyrillic)	dd.MM.yyyy
uz-Cyrl-UZ	Uzbek (Cyrillic, Uzbekistan)	dd.MM.yyyy
uz-Latn	Uzbek (Latin)	dd/MM/yyyy
uz-Latn-UZ	Uzbek (Latin, Uzbekistan)	dd/MM/yyyy
vi	Vietnamese	dd/MM/yyyy
vi-VN	Vietnamese (Vietnam)	dd/MM/yyyy
wo	Wolof	dd/MM/yyyy
wo-SN	Wolof (Senegal)	dd/MM/yyyy
xh	isiXhosa	yyyy/MM/dd
xh-ZA	isiXhosa (South Africa)	yyyy/MM/dd
yo	Yoruba	d/M/yyyy
yo-NG	Yoruba (Nigeria)	d/M/yyyy
zh	Chinese	yyyy/M/d
zh-CHS	Chinese (Simplified) Legacy	yyyy/M/d
zh-CHT	Chinese (Traditional) Legacy	d/M/yyyy
zh-CN	Chinese (Simplified, PRC)	yyyy/M/d
zh-Hans	Chinese (Simplified)	yyyy/M/d
zh-Hant	Chinese (Traditional)	d/M/yyyy
zh-HK	Chinese (Traditional, Hong Kong S.A.R.)	d/M/yyyy
zh-MO	Chinese (Traditional, Macao S.A.R.)	d/M/yyyy
zh-SG	Chinese (Simplified, Singapore)	d/M/yyyy
zh-TW	Chinese (Traditional, Taiwan)	yyyy/M/d
zu	isiZulu	yyyy/MM/dd
zu-ZA	isiZulu (South Africa)	yyyy/MM/dd

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